

Novell Open Enterprise Server

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NLM™ REFERENCE FOR NETWARE

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About This Guide

This guide contains a list of NetWare[®] Loadable Module[™] (NLM[™]) programs included in NetWare 6.5. The list includes all module names and descriptions of each module. For each NLM located in the `sys:\system` and `c:\nwserver` directories, more documentation is provided.

This guide is divided into the following sections:

- “Overview” on page 9
- “NetWare Loadable Module List” on page 11
- “Documentation Updates” on page 125

Audience

This guide is intended for network administrators.

Feedback

We want to hear your comments and suggestions about this manual and the other documentation included with this product. Please use the User Comments feature at the bottom of each page of the online documentation, or go to www.novell.com/documentation/feedback.html and enter your comments there.

Documentation Updates

For the most recent version of the *NLM Reference for NetWare for OES*, see the [Novell Open Enterprise Server Documentation Web site \(http://www.novell.com/documentation/oes/nlm_list/data/ai05qkm.html#bktitle\)](http://www.novell.com/documentation/oes/nlm_list/data/ai05qkm.html#bktitle).

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When a single pathname can be written with a backslash for some platforms or a forward slash for other platforms, the pathname is presented with a backslash. Users of platforms that require a forward slash, such as Linux* or UNIX*, should use forward slashes as required by your software.

A NetWare® Loadable Module™ (NLM™) program is server utility software that enhances or provides additional functions in a NetWare 3.x or later server. Examples are support for print server and database engines.

This section contains the following information:

- [Section 1.1, “Introduction to NLM Programs,” on page 9](#)
- [Section 1.2, “Managing NLM Programs,” on page 9](#)
- [Section 1.3, “What's Next,” on page 10](#)

1.1 Introduction to NLM Programs

Some NLM programs are loaded whenever you start the server, some are loaded by other NLM programs when they are needed, and some must be loaded manually.

When loaded, an NLM program is dynamically linked to the operating system and the NetWare server allocates a portion of memory to it. The amount of memory an NLM program uses depends on the task. Some tasks make calls that cause the operating system to allocate more memory. The NLM program uses the memory to perform a task and then returns control of the memory to the operating system when the NLM program is unloaded. When an NLM program is unloaded, all allocated resources are returned to the operating system.

Most NLM programs included with NetWare are copied to `sys:system` during installation. As you acquire additional NLM programs, decide where you want to copy them. The operating system must be able to find the NLM programs when a load command is issued.

NLM programs can be copied to any of the following areas:

- `Sys:system` directory
- Any network directory on the NetWare server
- A local drive of the NetWare server

There are many modules that must reside on the server startup partition (`c:\nwserver`) that are not needed for basic server operation. Some examples are Unicode* modules and diagnostic and debugging utility modules. There are also modules in the `nwserver` directory that are used during the install or upgrade or migration process, but not during basic server operation.

For more information on NLM programs, see the *Server Operating System for NetWare Administration Guide for OES*.

1.2 Managing NLM Programs

Novell Remote Manager (NRM) lets you access a list of NLM programs to view information about them and perform different operations with them.

To view a list of NLM programs and manage them, access the NetWare Loadable Module Information page by clicking the *List Modules* link under the *Manage Applications* heading in the navigation frame.

From the NetWare Loadable Module Information page, you can do the following:

- View a list of all the NLM programs that are loaded on the server or in an address space
- Load an NLM program on the server
- View the search path for loading modules or `.ncf` file

For more information, see “[Monitoring Server Health](#)” in the *Novell Remote Manager for NetWare Administration Guide for OES*.

1.3 What's Next

For a list and description of every module in NetWare 6.5 with an `.nlm` extension, see “[NetWare Loadable Module List](#)” on page 11.

NetWare Loadable Module List

The following tables contain a list of NetWare® Loadable Module™ (NLM™) programs contained in NetWare 6.5. The tables are organized alphabetically.

0 to 100 and _a through _z, A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

2.1 0 to 100 and _a through _z

name	Description	Purpose
_adrot.nlm	NSN - Ad Rotator UCX Component	
_apc.nlm	NSN - Power Supply UCX Component	
_bind.nlm	NSN - Bindery UCX Component	
_browser.nlm	NSN - Browser Capability UCX Component	
_btx.nlm	NSN - Btrieve UCX Component	
_cliskt.nlm	NSN - Client Socket UCX Component	
_comport.nlm	NSN - COM Port UCX Component	
_controt.nlm	NSN - Content Rotator UCX Component	
_counter.nlm	NSN - Counter UCX Component	
_dirctry.nlm	NSN - Directory UCX Component	
_doc.nlm	NSN - HTML Document UCX Component	
_dosfmgr.nlm	NSN - DOS File Manager UCX Component	
_env.nlm	NSN - Environment UCX Component	
_error.nlm	NSN - Error UCX Component	
_fax.nlm	NSN - FAX UCX Component	
_filesys.nlm	NSN - File System UCX Component	
_fio.nlm	NSN - File I/O UCX Component	
_ftpfmgr.nlm	NSN - FTP File Manager UCX Component	

name	Description	Purpose
_lptport.nlm	NSN - LPT Port UCX Component	
_myinfo.nlm	NSN - MyInfo UCX Component	
_nextlnk.nlm	NSN - Next Link UCX Component	
_nsni.nlm	NSN - Script Interpreter	
_nwdir.nlm	NSN - eDirectory™ UCX Component	
_nwevent.nlm	NSN - NetWare Events Manager UCX Component	
_nwfmgr.nlm	NSN - NetWare File System Manager UCX Component	
_pcheck.nlm	NSN - Permission Checker UCX Component	
_pgcntr.nlm	NSN - Page Counter UCX Component	
_profile.nlm	NSN - Profile UCX Component	
_queue.nlm	NSN - QUEUE UCX Component	
_sema.nlm	NSN - Semaphore UCX Component	
_server.nlm	NSN - Server UCX Component	
_snmp.nlm	NSN - SNMP UCX Component	
_srvskt.nlm	NSN - Server Socket UCX Component	
_textwin.nlm	NSN - Text Window UCX Component	
_tools.nlm	NSN - Tools UCX Component	
_volmgr.nlm	NSN - Volume Manager UCX Component	
_zipfile.nlm	NSN - ZipFile UCX Component	

2.2 A

name	Description	Purpose
a2p.nlm	Perl 5.8.0 - Awk to Perl Translator	• Not loaded by default.
a3112.nlm	OS Support For NetWare 4.x NLM programs	
ab.nlm	Apache 2.0.44 Benchmark Utility for NetWare	

name	Description	Purpose
access36.nlm	mod_perl-2.0 Extension (Access) XS_VERSION: 0.01	
acpiasl.nlm	ACPI Component Architecture (CA) for NetWare	- Provides support for features provided by advanced configuration and power interface (ACPI) systems, including hyper-threading and power management features in NetWare 6.5. - In general, the NLM program cannot be unloaded. - Works with acpidrv.psm, acpicmgr.nlm, and acpipwr.nlm. - Loaded by default if an ACPI-compliant system is detected during the installation of NetWare.
acpica.nlm	ACPI Component Architecture (CA) for NetWare	- Allows NetWare drivers to access ACPI features on the server. - It is not recommended to unload the NLM program. In the normal configuration in which the NLM program loads, one of the modules that depends on it cannot be unloaded. So you typically would not be able to unload the NLM program. - Dependent on acpiasl.nlm, nbi.nlm, and server.exe. - Auto-loaded by acpidrv.psm, the recommended PSM for servers with P4 processors (for Compaq*, P3 Xeon or later). During the hardware detection phase, the installation determines whether the hardware found calls for loading acpidrv.psm.
acpicmgr.nlm	ACPI Component Architecture (CA) for NetWare	- Provides support for features provided by ACPI systems, including hyper-threading and power management features in NetWare 6.5. - In general, the NLM program cannot be unloaded. - Works with acpidrv.psm, acpiasl.nlm, and acpipwr.nlm. - Loaded by default if an ACPI-compliant system is detected during the installation of NetWare.

name	Description	Purpose
acpipwr.nlm	ACPI Component Architecture (CA) for NetWare	- Provides support for features provided by ACPI systems, including hyper-threading and power management features in NetWare 6.5. - In general, the NLM program cannot be unloaded. - Works with acpidrv.psm, acpicmgr.nlm, and acpiasl.nlm. - Loaded by default if an ACPI-compliant system is detected during the installation of NetWare.
admattr.nlm	ADM Attribute Creation Utility	- Supports management of common objects between BorderManager® and NMAS™. - Not loaded by default.
adsp.nlm	AppleTalk* Data Stream Protocol MOAB.B21	- Protocol that allows applications to communicate over AppleTalk networks. - Dependent on appletlk.nlm. - Auto-loaded by appletlk.nlm.
afptcp.nlm	AFPTCP (Build 149 SP)	- Apple* file protocol communication layer. - If unloaded, Apple clients cannot communicate to server. - Dependent on nfap4nrm.nlm and setmd4.nlm. - Loaded by default.
agcrypto_jni.nlm	Java* Native Cryptography Support for exteNd™	
agdbregistry.nlm	SilverStream* Command-line Loader for agdbregistry.nlm	
agdigitalids tep1.nlm	agdigitalIdstep1.nlm	
agdigitalids tep2.nlm	agdigitalIdstep2.nlm	
aglicreg.nlm	SilverStream License Utility	
agremovedb.nlm	agremovedb.nlm	
aguploadlicense.nlm	aguploadlicense.nlm (Install exteNd AppServer License)	
aguuid_jni.nlm	Java Native UUID Support for exteNd	
apache2.nlm	Apache Web Server 2.0.44	
apitest.nlm	Perl 5.8.0 - APItest Extension XS_VERSION: 0.01	

name	Description	Purpose
apjava.nlm	Java Native Method Library for nwiap.nlm	
appletlk.nlm	AppleTalk* Stack/Router ndn19206	• Loads the AppleTalk router and AppleTalk protocol stack on the server. • Not loaded by default.
apr.nlm	mod_perl-2.0 Extension (APR) XS_VERSION: 0.01	
aprilb.nlm	Apache Portability Runtime Library 0.9.2	
arp.nlm	TCP/IP ARP Configuration Command	• Manipulates the system ARP cache. • No consequences if unloaded. • Dependent on conman.nlm. • Not loaded by default.
atcfg.nlm	AppleTalk Configuration Console MOAB_NDK_1	• AppleTalk protocol configuration snap-in for inetcfg.nlm. • Auto-loaded and unloaded by inetcfg.nlm. • Dependent on inetcfg.nlm. • Not loaded by default.
atcon.nlm	SMILE/PTUI AppleTalk Console MOAB.B21	• Monitors the activity of AppleTalk network segments. Examines the configuration of the local AppleTalk router. Diagnoses operational problems in network segments that support AppleTalk. Verifies the connectivity of an AppleTalk router to the rest of the internetwork. Monitors the status of AppleTalk Update-based Routing Protocol (AURP). • Not loaded by default.
atflt.nlm	AppleTalk Filter Support Module MOAB.B21	• Lets you restrict how routers see and communicate with each other. • Not loaded by default.
auditjv.nlm	Java Native Method Library for Audit File Conversion	
audnlm32.nlm	NetWare NWAud Runtime Library	• Auditing APIs. • If unloaded, cross-platform APIs are not available. • Dependent on CLib NLM programs. • Not loaded by default.

name	Description	Purpose
aurp.nlm	AppleTalk Update-Based Routing Protocol MOAB.B21	- Allows AppleTalk to be tunneled through IP, which lets AppleTalk networks connect to each other through an IP network. - Not loaded by default.
authanon.nlm	Authentication Anonymous Module	Allows "anonymous" user access to authenticated areas
authdbm.nlm	Database Authentication Module	Provides for user authentication using DBM files
authldap.nlm	Apache 2.0.44 LDAP Authentication Module	Allows an LDAP directory to be used to store the database for HTTP Basic authentication.
authlddn.nlm	LDAP DN Module	- Allows iManager to be able to send LDAP formatted name that accomodate duplicate UID files. This NLM fixes an ABEND with secure iPrint printing. This NLM should only be used on a server running NetWare 6.5 SP4/SP4A or OES NetWare SP1/SP1A. - Dependent on apache2.nlm program. - Not loaded by default.
awt.nlm	AWT - 1.2 Graphics	

2.3 B

Name	Description	Purpose
backupcr.nlm	eDirectory™ Management Tool Box DSBBackup eMTool 8.7	- Core library that provides hot continuous backup functionality. - Loaded by other NLM programs. - Dependent on sal.nlm. - Not loaded by default.
backuptl.nlm	eDirectory Management Tool Box DSBBackup eMTool 8.7	- The backup eMTool. Part of the eMBox. Provides hot continuous backup through the eMBox. - Dependent on backupcr.nlm and other eMBox NLM programs. - Loaded by default.
base64.nlm	Perl 5.8.0 - Base 64 Extension XS_version: 2.12	
base6415.nlm	mod_perl-2.0 Extension (Base64) XS_version: 0.01	

Name	Description	Purpose
bash.nlm	Bourne-Again Shell (BASH): the GNU version of the standard UNIX shell, originally developed by Steven R. Bourne, ported to NetWare	Provides BASH on NetWare, including a variety of useful system utilities. For more information, see “ BASH ” in the <i>Utilities Reference for OES</i> .
bcallcfg.nlm	Backup Call Configuration Console	
bcallsrv.nlm	Backup Call Server MOAB_NDK2	
bootpfwd.nlm	BOOTP Forwarder	Forwards BOOTP requests. BOOTP is a protocol that enables end nodes to receive their IP addresses from a BOOTP server at startup time. If your internetwork has a BOOTP or DHCP server, you can configure your IP router to accept and forward BOOTP or DHCP requests to that server.
brgcfg.nlm	Source Route Bridge Configuration Console MOAB_NDK_1	- Source route bridge configuration utility. - Cannot unload. Loaded by inetcfg.nlm. - Dependent on inetcfg.nlm. - Not loaded by default.
brgcon.nlm	MPR Bridge Console IP0200.G01	- Monitors activities of the bridge running on the server. - Not loaded by default.
brglanm.nlm	NetWare MPR SR Bridge LAN Manager IP0200.G01	- NetWare MPR source route bridge LAN Manager. - Dependent on bridge.nlm. - Not loaded by default.
bridge.nlm	NetWare MPR SR/T Bridge IP0200.G01	- NetWare source route bridge. - Not loaded by default.
brigad14.nlm	mod_perl-2.0 Extension (Brigade) XS_version: 0.01	
broker.nlm	NDPS® Broker	- Host for regsrvr.nlm, ntfysrvr.nlm, and rmansrvr.nlm. - If unloaded, the three hosted services are unloaded. - Dependent on clib.nlm, ws2_32.nlm, dsapi.nlm, dprpcnlm.nlm, nwsnut.nlm, clxnlm32.nlm, and calnlm32.nlm. - Not loaded by default. - For more information, see “iPrint Broker” in the <i>Utilities Reference for OES</i>.

Name	Description	Purpose
bsdsock.nlm	Novell® BSDSOCK Module	- Provides the BSD standard sockets interface. - Cannot be unloaded. - Dependent on all applications written over BSD layer. - Loaded by default.
bspxcom.nlm	bspxcom.nlm 7.90.000 (Build 230)	- Handles incoming requests to btrieve.nlm from a remote source via SPX™. - If unloaded, remote communication to btrieve.nlm is not possible. - Btrieve* monitor utility is dependent on bspxcom.nlm. - Loaded by default only if IPX™ is a loaded protocol.
btcpcom.nlm	btcpcom.nlm 7.90.000 (Build 230)	- Handles incoming requests to btrieve.nlm from a remote source via TCP/IP. - If unloaded, remote communication to btrieve.nlm is not possible. - Btrieve monitor utility is dependent on bspxcom.nlm. - Loaded by default only if TCP/IP is a loaded protocol.
btmsg.nlm	btmsg.nlm 4.0.100 (Build 230)	Btrieve NLM program.
btrieve.nlm	btrieve.nlm 7.90.000	- Provides database functionality, primarily for the installed products listing in NetWare. - If unloaded, numerous failures in NetWare occur. - Default dependencies are csl.nlm, nlsmeter.nlm, and n_prddat.nlm. - Loaded by default.
bucket13.nlm	mod_perl-2.0 Extension (Bucket) XS_version: 0.01	
bulkload.nlm	Bulkload	- Allows you to use industry-standard LDAP Data Interchange Format (see LDIF) data files to create, modify, or delete NDS® objects. Now it notifies you to use Novell Import Convert Export (ICE) instead. - Not loaded by default.
byteload.nlm	Perl 5.8.0 - Byteloader Extension XS_version: 0.04	

2.4 C

Name	Description	Purpose
call.nlm	Perl 5.8.0 - Call Extension XS_version: 1.06	
callmgr.nlm	Call Connection Manager	• Console utility used to view the PPP (WAN call status). • Dependent on tui.nlm • Not loaded by default.
calnlm32.nlm	NetWare NWCalls Runtime Library	• File system APIs. • If unloaded, cross-platform APIs is not available. • Dependent on LibC NLM programs. • Not loaded by default.
ccscheck.nlm		
cdbe.nlm	NetWare Configuration DB Engine	• NetWare registry NLM program. • Cannot be unloaded. • Not dependent on other NLM programs, but NetWare can not run without this NLM program. • Loaded by default.
cdrom.nlm	NSS (Novell Storage Services™) CD Support (Build 41 MP)	• Use at the server console to allow a CD-ROM disk to function as a Novell Storage Services (NSS) volume. Your NSS volume mounts immediately. This version of cdrom.nlm replaces the version used in previous NetWare releases. (The previous version of cdrom.nlm is now named cdinst.nlm and should be used only for NetWare 5 installation.) • The NetWare 6 version of cdrom.nlm is a simple NetWare module that loads the following: nss.nlm, cd9660.nss, and cdhfs.nss. • In NetWare 6.5, cddvd.nss replaces the cdrom.nlm.
cernmeta.nlm	Apache 2.0.44 CERN Meta Module	• Emulate the CERN HTTPD Meta file semantics.
certtool.nlm	jBroker™ ORB Certification Tool	

Name	Description	Purpose
charset.nlm	Display Character Set Support for NetWare	- Replaces characters with the bitmap definitions of all 256 symbols defined in the preferred code page to be displayed on the server console. - If unloaded, the server character set defaults back to symbols defined in the English code. - Works with keyb.nlm to support 12 European languages display. - Loaded by default only if the user specified a non-English character set supported by Novell during NetWare installation. - For more information, see “CHARSET” in the <i>Utilities Reference for OES</i>.
chngserv.nlm	jBroker ORB Change Server Utility	
cifs.nlm	CIFS Semantic Agent (Build 223 MP)	- Common Internet file system communication layer. - If unloaded, non NCP™ clients cannot communicate to server. - Dependent on nfap4nrm.nlm, setmd4.nlm, and cifsprox.nlm. - Loaded by default.
cifsprox.nlm	NMAS™ Proxy for CIFS (Build 38 MP)	- Proxy layer for CIFS. - Must be unloaded with cifs.nlm. - Can not load without cifs.nlm being loaded. - Loaded by default.
cios.nlm	Consolidated IO System	- A new object-oriented I/O subsystem that unifies and greatly simplifies LAN, storage, and USB driver development. - Cannot be unloaded. Attempts to unload cios.nlm fail. - Dependent on ciosshim.nlm and mm.nlm. - Loaded by default cios.nlm is programmatically loaded in stage one of OS initialization. It is not loaded from a script file or by virtue of a dependency but instead is loaded directly by server.exe.
ciosshim.nlm	Novell CIOS Platform Shim	- Provides APIs to cios.nlm and fatfs.nlm. - Dependent on LibC. Fatfs.nlm and cios.nlm are dependent on it. - Loaded by default.

Name	Description	Purpose
cli.nlm	License Install Library	• Licensing install utility. • Not loaded by default.
clib.nlm	Novell Standard C Runtime Library for NLM programs	• Provides standard C calls for legacy applications. • Not possible to unload this NLM because too many applications are dependent on it. • Dependent on nit.nlm, nlmlib.nlm, request.nlm, threads.nlm, and libc.nlm. • Loaded by default. • For more information, see “CLIB” in the <i>Utilities Reference for OES</i>.
clibaux.nlm	Novell NLM Auxiliary Shim	• Provides a short list of interfaces on legacy versions of NetWare, allowing applications to consume modern NDKs and still run on NetWare 4.11 and 3.x. This is a CLib product. • Not possible to unload if an application is dependent on it. If no application is dependent on it, then unloading it has no effect. However, it normally would not be loaded in this case; it would have unloaded itself upon start up. • Dependent on nit.nlm, nlmlib.nlm, request.nlm, threads.nlm, and libc.nlm. • Not loaded by default.
clibctx.nlm	CLib Context Agent for NLM Programs	• First version of libcclib.nlm. This NLM program is not supported and should not be used.
clnnlm32.nlm	NetWare NWCLX Runtime Library	• Internal support used by all cross-platform NLM programs. • If unloaded, cross-platform APIs are not available. • Dependent on CLib NLM programs. All cross-platform NLM programs are dependent on it. • Not loaded by default.

Name	Description	Purpose
clstrlib.nlm	Novell Cluster Configuration Library	- Provides the interface between Novell Cluster Services™ (NCS) and eDirectory. The cluster configuration library (running on the master node) uses eDirectory to access all cluster configuration information, including the cluster attributes, protocols, properties, policies, and settings. - If unloaded, clustering does not work. - All NCS NLM programs are dependent on it. - Only loaded if you installed cluster services on the server.
clxn1m32.nlm	NetWare NWCLX Runtime Library	- Connection management APIs. - If unloaded, cross-platform APIs are not available. - Dependent on CLib NLM programs. - Not loaded by default.
cma.nlm	Cluster Management Agent (Build 02122003)	- Acts as a proxy for ConsoleOne. This is an asynchronous, proprietary protocol that runs between the cluster and the client workstation running ConsoleOne. - Use <code>ldncls.ncf</code> to load clustering NLM programs. Use <code>uldncls.ncf</code> files to unload clustering NLM programs. If you unload cluster NLM programs on a server that was configured to be part of a cluster, the node leaves the cluster. All cluster resources are failed over to other nodes in the cluster, and it is not possible thereafter to activate any sharable drives for clustering pools on that server. - Dependent on <code>clstrlib.nlm</code>, <code>gipc.nlm</code>, <code>sbd.nlm</code>, <code>vll.nlm</code>, and <code>vipx.nlm</code>. - Only loaded if you installed cluster services on the server.
cmdpar35.nlm	mod_perl-2.0 Extension (CmdParms) XS_version: 0.01	
cmm.nlm	Java cmm (Based on 1.4.1_01)	

Name	Description	Purpose
cmon.nlm	Cluster Membership Monitor (Build 02122003)	• A console utility that runs on each node in the cluster, allowing network administrators to view the status of the cluster's nodes. • Use ldncs.ncf to load clustering NLM programs. Use uldncs.ncf files to unload clustering NLM programs. If you unload cluster NLM programs on a server that was configured to be part of a cluster, the node leaves the cluster. All cluster resources are failed over to other nodes in the cluster, and it is not possible thereafter to activate any sharable drives for clustering pools on that server. • Dependent on clustering NLM programs. • Only loaded if you installed cluster services on the server.
cmpsuper.nlm	Compression Subsystem Supervisor PRODUCTION_31MAY2002	• If unloaded, the PPP subsystem does not work. • Dependent on pred.nlm and nlzs.nlm. • Not loaded by default.
comman34.nlm	mod_perl-2.0 Extension (Command) XS_version: 0.01	
comp_err.nlm		
conlog.nlm	System Console Logger	• Console logging utility • If unloaded, console logs are not available. • Loaded by default. • For more information, see “CONLOG” in the <i>Utilities Reference for OES</i>.
conlogj.nlm	Java - GUI Conlog JNI Support Build 030227	
conlogo.nlm	Java - GUI Conlog Native Support Build 030227	
conman.nlm	NetWare TCPIP Configuration and Management Library	• SNMP interface for command line utilities. • If unloaded, netstat.nlm, ifconfig.nlm, arp.nlm, and routecon.nlm fail to load. • Dependent on snmp.nlm, netdb.nlm, and cs1.nlm. • Not loaded by default.

Name	Description	Purpose
connaud.nlm	NLS - Connection Metering	- Licensed connection usage metering application - Automatically reloaded if unloaded. - Dependent on cllib.nlm and nlsmeter.nlm. - Loaded by default.
connmgr.nlm	NetWare Connection Manager NLM program	- Allows you to view and clear connections on Windows* NT*. Executes the following command line commands: broadcast, clear station, cm busy, cm conn, cm kill, cm stats, disable login, enable login, idcache conn, idcache stats, and send. - Many NLM programs are dependent on it. - Loaded by default.
connec33.nlm	mod_perl - 2.0 Extension (Connection) XS_VERSION: 0.01	
const37.nlm	mod_perl-2.0 Extension (Const) XS_version: 0.01	
const39.nlm	mod_perl-2.0 Extension (Const) XS_version: 0.01	
const41.nlm	mod_perl-2.0 Extension (Const) XS_version: 0.01	
convinet.nlm	MPR 2.x-3.0 Conversion Utility	Not loaded by default.
cpdata.nlm	NetWare Install Data Store/Retrieve Module	- Part of install library. - Not loaded by default.
cpdatajv.nlm	Java Native Method Library for cpdata.nlm	
cpucheck.nlm	NetWare Processor Checking Utility	- Provides CPU information to other NLM programs as well as the cpucheck console command. - If unloaded, other NLM programs won't be able to use the exported API. Also, the cpucheck console command is disabled. - Some third-party NLM programs import its CPU information API. Not dependent on any NLM programs. - Loaded by default. - For more information, see "CPUCHECK" in the <i>Utilities Reference for OES</i>.

Name	Description	Purpose
crm.nlm	Novell Cluster Resource Manager (Build 02122003)	- The Cluster Resource Manager sits above the group membership protocols making sure that, as membership changes occur, cluster resources run on the correct nodes. - Use ldncs.ncf to load clustering NLM programs. Use uldncs.ncf files to unload clustering NLM programs. If you unload cluster NLM programs on a server that was configured to be part of a cluster, the node leaves the cluster. All cluster resources are failed over to other nodes in the cluster, and it is not possible thereafter to activate any sharable drives for clustering pools on that server. - Dependent on clstrlib.nlm, gipc.nlm, sbd.nlm, vll.nlm, and vipx.nlm. - Only loaded if you installed cluster services on the server.
csatpxy.nlm	CS Audit Trail Proxy Agent	Not loaded by default.
csaudit.nlm	CSLIB: Audit Trail Facility	- Audit Trail Logging utility. - Not loaded by default.
csl.nlm	NetWare Call Support Layer for NetWare	- Cannot unload. - Dependent on cslind.nlm. - Loaded by default.
cslnvrt.nlm	CSL Conversion	- CSL conversion sublayer. - Not loaded by default.
cslind.nlm	TCP/IP CSL Independence Module 7Dec99	- TCP/IP CSL Independence module. - If unloaded, TCP/IP does not function. - Dependent on tcpip.nlm. - Loaded by default.

Name	Description	Purpose
css.nlm	Cluster System Services (Build 02122003)	- Provides an API that any distributed cluster-aware application can use to enable distributed-shared memory and distributed locking. - Use <code>ldncls.ncf</code> to load clustering NLM programs. Use <code>uldncls.ncf</code> files to unload clustering NLM programs. If you unload cluster NLM programs on a server that was configured to be part of a cluster, the node leaves the cluster. All cluster resources are failed over to other nodes in the cluster, and it is not possible thereafter to activate any sharable drives for clustering pools on that server. - Dependent on <code>clstrlib.nlm</code>, <code>gipc.nlm</code>, <code>sbd.nlm</code>, <code>vll.nlm</code>, and <code>vipx.nlm</code>. <code>cvb.nlm</code> is dependent on it. - Only loaded if you installed cluster services on the server.
cssysmsg.nlm	CSLIB: System Messages Facility	Not loaded by default.
custom.nlm	NIS Example Remote Custom Service Provider	
cvb.nlm	Novell Cluster Volume Broker (Build 02122003)	- Tracks the Novell Storage Services (NSS) configuration for the cluster. If a change is made to NSS for one server, the CVB ensures that the change is replicated across all the nodes in the cluster. - Use <code>ldncls.ncf</code> to load clustering NLM programs. Use <code>uldncls.ncf</code> files to unload clustering NLM programs. If you unload cluster NLM programs on a server that was configured to be part of a cluster, the node leaves the cluster. All cluster resources are failed over to other nodes in the cluster, and it is not possible thereafter to activate any sharable drives for clustering pools on that server. - Dependent on <code>clstrlib.nlm</code>, <code>gipc.nlm</code>, <code>sbd.nlm</code>, <code>vll.nlm</code>, <code>vipx.nlm</code>, and <code>css.nlm</code>. - Only loaded if you installed cluster services on the server.
cwd.nlm	Perl 5.8.0 - Cwd Extension XS_version: 2.06	

2.5 D

Name	Description	Purpose
date12.nlm	mod_perl-2.0 Extension (Date) XS_version: 0.01	
dbi.nlm	Perl 5.0.8 - DBI Extension XS_version: 1.14	
dbinit.nlm	jBroker MQ Database Initialization	
dbnet6.nlm	Debug Network IO Support (Beta Build 4)	• Provides debug-time network interface. • If unloaded, ability to remote coredump and debug is disabled. • Requires LAN driver and msm.nlm and tsm.nlm. • Loaded by default.
dbtelnet.nlm	Kernel Debugger Telnet Daemon	• Telnet server for kernel debugger. • No consequences if unloaded. • Dependent on libc.nlm and nwtterm.nlm. • Not loaded by default.
dclient.nlm	NetWare JClient-Native (Build 1.0.17)	
dclientr.nlm	NetWare JClient-Native Resources (Build 1.0.17)	
dcpr.nlm	Java dcpr (Based on 1.4.1_01)	
debuglog.nlm	Debug Log Manager	• Logging NLM program for iSCSI. • Loads by default with iSCSI loads. • Loaded by default on iSCSI server.
delim.nlm	Novell Import Convert Export Utility	• Facilitates the import and export of delimited data in conjunction with the ICE utility. • Not loaded by default.
dfslib.nlm	DFS Common Library (Build 332 MP)	• Distributed file system library NLM program. • Cannot unload because other NLM programs use it. • Does not depend on NLM programs, but NLM programs depend on it. • Loaded by default.
dhcpcInt.nlm	NetWare DHCP Client	• Installation utility for DHCP information gathering. • Some NLM programs are dependent on it. • Not loaded by default.

Name	Description	Purpose
dhcpsrvr.nlm	DHCP Server	• If unloaded, DHCP clients depending on DHCP server won't be able to get IP addresses. • Dependent on dsapi.nlm, clib.nlm, snmp.nlm, csaudit.nlm, tcpip.nlm, streams.nlm, and ipclinfo.nlm. • Not loaded by default.
dhcputil.nlm	DHCP Utility for Installation	• Installation utility for DHCP information gathering. • Not loaded by default.
dhost.nlm	Novell DHost Portability Interfacec1.0.0 SMP	• Provides a compatibility interface between applications written to the NDS host process interface and the NetWare OS. • Applications that require its services do not allow it to unload. It's a passive library, so unloading it only makes its services unavailable. When an application loads that requires its services, then it is auto-loaded. • Dependent on embox.nlm and ds.nlm. • Not loaded by default. However, some dependent services are loaded by default (for example, ds.nlm), causing dhost.nlm to load.
diag500.nlm	Diagnostic/Coredump Utility for NetWare 6	• Writes coredumps by default to the hard disk and a full coredump without the cache. • Not loaded by default.
dibmig.nlm	Dib Migration Utility for Novell eDirectory 8.7	• Migrates NDS 7 databases to NDS 8 format. • Run by the installation at the appropriate time. If it is unloaded during the installation, the server is in a bad state, similar to unloading nwconfig.nlm during an installation. • Dependent on dsloader.nlm, ccs.nlm, and CLib. • Only loaded by installation.
digest.nlm	Digest Authentication Module	• User authentication using MD5 Digest Authentication.
direct32.nlm	mod_perl-2.0 Extension (Directive) XS_version: 0.01	
dirload.nlm	Novell Import Convert Export Utility	• Generates test data in conjunction with the ICE utility. • Not loaded by default.
dm.nlm	Novell XTier Directory Manager	

Name	Description	Purpose
dmgmt.nlm	Device Management NLM program	• If unloaded, external device support for WAN do not function. • Auto-loaded by ppptsm.nlm. • Not loaded by default.
dmndap.nlm	Novell XTier Directory Manager NDAP Provider	
dnipinst.nlm	eDirectory Integrated Novell DNS Server	• Installs DNS\DHCP Schema. Extends the DNS\DHCP Schema and creates the base object. It also functions as a Schema Repair utility. • Unloaded after the installation is complete. • Dependent on dsapi.nlm, tui.nlm, netdb.nlm, nlsi.nlm, and cli.nlm. • Not loaded by default.
dnscnvr.nlm	Schema Extend for eDirectory Integrated Novell DNS Server	• Converts Btrieve DNS Zone data files to a DNS Zone master text file. • Unloaded after conversion is complete. • Dependent on dsapi.nlm, tui.nlm, netdb.nlm, nlsi.nlm, and cli.nlm. • Not loaded by default.
dplsv386.nlm	NetWare 5.x, 6.x Distributed Print Library - DPLSV386	• NDPS client library used to form requests to NDPS services and to administer NDPS objects in eDirectory. • If unloaded, communication from the server to NDPS services ceases. • Dependent on dprpc.nlm, nipped.nlm, netnlm32.nlm, clxnlm32.nlm, calnlm32.nlm, and clib.nlm. • Not loaded by default.

Name	Description	Purpose
dprpcn.lm.nlm	Novell NDPS RPC Library NLM program	- Provides the communication layer for NDPS. It marshals the packets and sends and receives them between NDPS components. - Because dprpcn.lm.nlm provides the communications layer between NDPS components, the other components are dependent upon it for communication. In order to use dprpcn.lm.nlm, you need to unload all the other NDPS components that have built in dependencies to it. This includes the NDPS library (dplsv386.nlm). Because the NDPS library is used by the NDPS iManager plug-in, which provides a class used by the Java components on the server, it may not be possible to unload it. - Uses the CLib libraries (clib.nlm, nlmLib.nlm, and threads.nlm) for standard C function calls and threading. Calls into server.nlm for Mutexes and SpinLocks. Uses ws2.nlm.nlm to send and received packets. - Loaded automatically by the NLM programs that are dependent on it.
ds.nlm	Novell eDirectory 8.7 SP1 SMP	- This NLM program is eDirectory. - If unloaded, the directory on this server is shut down. - Dependent on at least sal.nlm and dsloader.nlm. - Loaded by default.
dsapi.nlm	NetWare NWNNet Runtime Library	- Part of the cross-platform libraries (DSAPIs). Loads net.nlm32.nlm to provide backwards compatibility. All the DSAPIs are exported from net.nlm32.nlm. - Applications that depend on it autoloading it. - Dependent on net.nlm32.nlm and CLib NLM programs. - Not loaded by default.
dsbacker.nlm	Install for Novell eDirectory 8.7	- Run-time library of miscellaneous backup-related functions. - Typically dynamically loaded for a specific backup-related task and then unloaded dynamically as well. - Dependent on basic NLM programs, such as ds.nlm and dsloader.nlm. - Not loaded by default.

Name	Description	Purpose
dsbrowse.nlm	Browse Utility for Novell eDirectory 8.7	• Browse and search the eDirectory tree. Used for troubleshooting and diagnosis. • Not loaded by default.
dsevent.nlm	NetWare DSEvent Runtime Library	• Part of the Cross-Platform Libraries (DSAPIs) APIs for eDirectory event registration. • Applications that are dependent on it autoload it. • Dependent on net.nlm32.nlm and CLib NLM programs. Many internal and external applications depend on it. • Not loaded by default.
dsi.nlm	Install for Novell eDirectory 8.7	• Library used for installation-related activities. • If the NLM is in use, you cannot unload it. • Many static and dynamic NLM program dependencies. • Not loaded by default.
dsijv.nlm	Java Native Method Library for NWIDS.NLM	
dsisch.nlm	Install for Novell eDirectory 8.7	• Library used for installation-related activities. • If the NLM program is in use, you cannot unload it. • Many static and dynamic NLM program dependencies. • Not loaded by default.
dsloader.nlm	eDirectory module	• Provides an abstraction for a local request to ds.nlm. This allows the directory to be changed without requiring all other modules on the box to be upgraded at the same time. • Cannot be unloaded. Loaded by the server environment. • Sa.l.nlm is dependent on it. • The operating system determines when it should be loaded. When the directory is loaded, dsloader.nlm is also loaded.
dsmerge.nlm	Merge/Graft Utility for Novell eDirectory 8.7	• Merge two eDirectory trees into a single tree. • Not loaded by default. • For more information, see “DSMerge” in the <i>Utilities Reference for OES</i>.

Name	Description	Purpose
dsrepair.nlm	Repair Utility for Novell eDirectory 8.6 - 8.7	• Use at the server console to repair and correct problems in the eDirectory database. Such problems might include bad records, schema mismatches, bad server addresses, and external references. • Not loaded by default. • For more information, see “DSRepair” in the Utilities Reference for OES.
dssnmpsa.nlm	SNMP Support for eDirectory 8.7.0	• eDirectory SNMP subagent. • If unloaded, the eDirectory server cannot be monitored through SNMP. • Dependent on clib.nlm, locnlm32.nlm, nlmplib.nlm, tcpip.nlm, threads.nlm, dsloader.nlm, snmp.nlm, ldapssl.nlm, and nwsnut.nlm. • Not loaded by default. You can configure the NLM program to be auto-loaded.
dstrace.nlm	Trace Utility for Novell eDirectory 8.7.0	• Filter and display eDirectory trace messages. • Not loaded by default.
dt_skt.nlm	Java dt_skt (Based on 1.4.1_01)	
dxevent.nlm	DirXML [®] Event Handler for Novell Directory Services 8.7.0	• Provides event caching and verb handling for DirXML. • Cannot be manually unloaded. If the NLM program is renamed so that it does not load, DirXML does not work. • Dependent on ds.nlm and sal.nlm. • Loaded by default. However, if there is no DirXML-DriverSet object hosted on the server, the NLM program doesn't work.

2.6 E

Name	Description	Purpose
echo.nlm	Apache 2.0.44 Echo Module	• A simple echo server to illustrate protocol modules. • Not loaded by default.
echo.nlm	Perl 5.8.0 - DOS Echo Emulation for Perl Testing	• Not loaded by default.

Name	Description	Purpose
edit.nlm	NetWare Text Editor	• Use at the server console to create or modify a text file on either a DOS or NetWare partition. • Dependent on nwsnut.nlm and nlmLib.nlm. • Not loaded by default. • For more information, see “EDIT”
embox.nlm	eDirectory Management Tool Box Engine 8.7	• Runs the Web services interfaces for eDirectory 8.7 utilities. • If unloaded, the Web services interface for eDirectory does not work. • Dependent on eDirectory 8.7 or later. • Loaded by eDirectory.
emboxmgr.nlm	eDirectory Management Tool Box Manager 8.7	• Part of eMBox. • Dependent on eDirectory 8.7 or higher. eMBox is dependent on it. • Loaded by eMBox.
emboxmsg.nlm	eDirectory Management Tool Box Message API 8.7	• Part of eMBox. • Dependent on eDirectory 8.7 or later. eMBox is dependent on it. • Loaded by eMBox.
epsoncon.nlm	Epson Printer Gateway Console	• Enables printing to Epson* printers. An alternative to the Novell gateway. Provides provides custom configuration and control for Epson printers. • Unloading the gateway disables print support for the printers that were configured to use that gateway. • Gateways depend on eDirectory, the Web server for the iManager management consoles, and NDPS, which includes dplsv386.nlm, broker.nlm, ndpsm.nlm, and their dependencies. • Gateways are not loaded by default.

Name	Description	Purpose
epsongw.nlm	Epson NDPS Gateway	- Enables printing to Epson printers. An alternative to the Novell gateway. Provides provides custom configuration and control for Epson printers. - Unloading the gateway disables print support for the printers that were configured to use that gateway. - Gateways depend on eDirectory, the Web server for the iManager management consoles, and NDPS, which includes dplsv386.nlm, broker.nlm, ndpsm.nlm, and their dependencies. - Gateways are not loaded by default.
epsonlib.nlm	Epson Printer Gateway Library	- Enables printing to Epson printers. An alternative to the Novell gateway. Provides provides custom configuration and control for Epson printers. - Unloading the gateway disables print support for the printers that were configured to use that gateway. - Gateways depend on eDirectory, the Web server for the iManager management consoles, and NDPS, which includes dplsv386.nlm, broker.nlm, ndpsm.nlm, and their dependencies. - Gateways are not loaded by default.
epsonpap.nlm	Epson Printer Gateway Plug and Print	- Enables printing to Epson printers. An alternative to the Novell gateway. Provides provides custom configuration and control for Epson printers. - Unloading the gateway disables print support for the printers that were configured to use that gateway. - Gateways depend on eDirectory, the web server for the iManager management consoles, and NDPS, which includes dplsv386.nlm, broker.nlm, ndpsm.nlm, and their dependencies. - Gateways are not loaded by default.

Name	Description	Purpose
ether tsm.nlm	Novell Ethernet Topology Specific Module	• All Ethernet LAN traffic passes through this module as packets are sent and received by the Ethernet driver(s). Ether tsm.nlm provides a common API interface for Ethernet drivers. • Before ether tsm.nlm can be unloaded, all Ethernet LAN drivers must be unloaded and therefore all Ethernet traffic is terminated. • Ether tsm.nlm requires msm.nlm to load first. • Not loaded by default.
eventmgr.nlm	Novell XTier Event Manager	
expat.nlm	Perl 5.8.0 Expat Extension XS_version: 2.31	
expatlibc.nlm	Scripting - Expat XML Parser Library (LibC Based)	• Php_xml.nlm is dependent on it.
expatlib.nlm	Scripting- Expat XML Parser Library (CLib-Based)	
expires.nlm	Apache 2.0.44 Expires Module	Generation of Expires HTTP headers according to user-specified criteria.
extfiltr.nlm	Apache 2.0.44 External Filter Module	Pass the response body through an external program before delivery to the client.

2.7 F

Name	Description	Purpose
fatfs.nlm	FAT Filesystem Module for NetWare	• Intercepts the calls to DOS and implements the requested functionality in the context of NetWare. • Cannot be unloaded. • Dependent on libc.nlm and ciosshim.nlm. • Loaded by default.
fcntl.nlm	Perl 5.8.0 - Fcntl Extension XS_version: 1.04	

Name	Description	Purpose
fdditsm.nlm	Novell FDDI Topology Specific Module	• All FDDI LAN traffic passes through this module as packets are sent and received by the FDDI driver(s). Fdditsm.nlm provides a common API interface for FDDI drivers. • Before fdditsm.nlm can be unloaded, all FDDI LAN drivers must be unloaded, and therefore all FDDI traffic is terminated. • Fdditsm.nlm requires msm.nlm to load first. • Not loaded by default.
filesys.nlm	NetWare File System NLM	• Traditional file system NLM program. • Not intended to be unloaded. If unloaded, the server abends. • Connmgr.nlm and lfs.nlm must be loaded before it is loaded. • Loaded by default.
filtcfg.nlm	MPR Filter Configuration	• User Interface (Textual) module for configuring firewall rules. • Used in conjunction with filtsrv.nlm. • Dependent on filtsrv.nlm to read and write configuration to configuration files. • Not loaded by default.
filtconv.nlm	MPR Filter Conversion	• Not loaded by default.
filter30.nlm	mod_perl-2.0 Extension (FilterRec) XS_version: 0.01	
filter31.nlm	mod_perl-2.0 Extension (Filter) XS_version: 0.01	
filtsrv.nlm	Filter Services	• Backend module that reads firewall configuration and passes it on to the firewall module. • If unloaded, the system is open for attacks. Lpflt.nlm must be unloaded before this NLM program can be unloaded. • Not loaded by default.
fixup.nlm	fixup	
fixupsp.nlm	fixupsp	
flextrap.nlm	NetWare Flexible Trap Configurator	
fontmn.nlm	Java 1.4 Font Manager and Rendering Engine for NetWare	

Name	Description	Purpose
fpsm.nlm	Novell Floating-Point Support Module for NLM programs	- Resident on the NetWare 6.5 server only for backward compatibility with some legacy NLM programs that autoloading it. - If unloaded, a legacy module that references it by name would no longer function. No legacy modules that are loaded by default on the NetWare 6.5 server reference this NLM program. - Not loaded by default.
ftpif.nlm	Interface Module for NetWare FTP Server and Statistics	- Dependent on netnlm32.nlm and clxnlm32.nlm. - Loaded by default if nwftpd.nlm is present in autoexec.ncf.
ftpstat.nlm	NetWare FTP Server Statistics Utility	- If unloaded, FTP statistics are not available. - Dependent on ftpif.nlm. - Not loaded by default.
ftpupgrd.nlm	NetWare FTP Server Configuration Upgrade Utility	Loaded at installation.

2.8 G

Name	Description	Purpose
gams.nlm	Graded Authentication Management Service	- Nmas.nlm and ds.nlm are dependent on it. - Loaded by default.
gateway.nlm	jBroker ORB Gateway Server	
gencfg.nlm	Generic Configuration Console, Production_22Apr2002	- Cannot be unloaded. - Dependent on inetcfg.nlm. - Not loaded by default.
gestegw.nlm	Geste NDPS Gateway	- Enables printing to Geste printers. An alternative to the Novell gateway. Provides custom configuration and control for Geste printers. - Unloading the gateway disables print support for the printers that were configured to use that gateway. - Gateways depend on eDirectory, the Web server for the iManager management consoles, and NDPS, which includes dplsv386.nlm, broker.nlm, ndpsm.nlm, and their dependencies. - Gateways are not loaded by default.

Name	Description	Purpose
gipc.nlm	Group Protocol (Build 02122003)	- Tracks cluster membership changes. In essence, GIPC runs the cluster's group membership protocols. - Use <code>ldncls.ncf</code> to load clustering NLM programs. Use <code>uldncls.ncf</code> files to unload clustering NLM programs. If you unload cluster NLM programs on a server that was configured to be part of a cluster, the node leaves the cluster. All cluster resources are failed over to other nodes in the cluster, and it is not possible thereafter to activate any sharable drives for clustering pools on that server. - Dependent on <code>clstrlib.nlm</code>. - Only loaded if you installed cluster services on the server.
glob.nlm	Perl 5.0.8 - Glob Extension XS_version: 1.01	
global1.nlm	mod_perl-2.0 Extension (Global) XS_version: 0.01	
guimgr.nlm	Graphical User Interface Manager	

2.9 H

Name	Description	Purpose
hbnnsp.nlm	Novell XTier GetHostByName Name Server Provider	
hdetect.nlm	NetWare Hardware Installation Utility	- Installation utility for hardware detection and configuration. - Not loaded by default.
headers.nlm	Apache 2.0.44 Headers Module	Customization of HTTP request and response headers.
hookru29.nlm	mod_perl-2.0 Extension (HookRun) XS_version: 0.01	
hostmib.nlm	NetWare 5.x/6.x Host Resources MIB	- SNMP agent implementation of <code>rfc1514.mib</code> and <code>nwhostx.mib</code>. - If unloaded, SNMP manager does not receive the data. - Dependent on <code>clib.nlm</code>. - Not loaded by default.
hostname.nlm	Perl 5.8.0 Hostname Extension XS_version: 1.1	

Name	Description	Purpose
hpgate.nlm	Hewlett-Packard* NDPS Gateway	- Enables printing to Hewlett Packard printers. An alternative to the Novell gateway. Provides custom configuration and control for Hewlett-Packard printers. - Unloading the gateway disables print support for the printers that were configured to use that gateway. - Gateways depend on eDirectory, the Web server for the iManager management consoles, and NDPS, which includes dplsv386.nlm, broker.nlm, ndpsm.nlm, and their dependencies. - Gateways are not loaded by default.
hprof.nlm	Java hprof (Based on 1.4.1_01)	
ht2soap.nlm	eDirectory Management Tool Box HTTP to SOAP Shim 8.7	- Part of eMBox. - eMBox is dependent on it. - Dependent on eDirectory 8.7 or later. - Loads with eMBox.
htdbm.nlm	Apache 2.0.44 HT Database Management Utility for NetWare	
htdigest.nlm	Apache 2.0.44 HT Digest Utility for NetWare	
htpasswd.nlm	Apache 2.0.44 HT Password Utility for NetWare	
httpstk.nlm	Novell Small HTTP Interface	- Provides HTTP transport protocol services for Novell Remote Manager (NRM) and DHOST. - If unloaded, all Novell Remote Manager functionality ceases to operate. - Dependent upon the WinSock NLM programs and TCP/IP protocol stack. - Loaded by default.
hwdetect.nlm	Novell Hardware Insertion/Removal Detection	- Recognizes that a PCI device has been removed or a new PCI device has been added to the system. Upon learning of a new device, it loads hwdetect.nlm and tries to find a driver that supports the hardware. Needed for the support of PCI Hot Plug. - If unloaded, you lose the ability to track changes of hardware and subsequently PCI Hot Plug operations. - Dependent on nbi.nlm and cdbe.nlm.

2.10 I

Name	Description	Purpose
ice.nlm	Novell Import Convert Export Utility	- Imports and exports data to and from eDirectory in a variety of formats. - Dependent on dirload.nlm, delim.nlm, ldaphdlr.nlm, ldapsdk.nlm, ldapssl.nlm, and ldif.nlm. - Not loaded by default.
icelib.nlm	IceWM Dynamic Library - 1.1 for NetWare	
icenativ.nlm	ICE ConsoleOne® Native Interface for Novell eDirectory 8.7	- Provides native functionality to ConsoleOne ICE Wizard. - Can only be unloaded by java.nlm. - Not loaded by default.
icewm.nlm	IceWM - 1.1 for NetWare	
icm_spx.nlm	SPX Manual Connection Manager	Not loaded by default.
icmd.nlm	NetWare Installation Command Utility	- Command interpreter used by nwconfig.nlm. - Cannot be unloaded if nwconfig.nlm is using it. - Not loaded by default.
idl2java.nlm	jBroker ORB IDL to Java Compiler	
ifconfig.nlm	TCP/IP Ifconfig Interface Configuration Command	- Configures network interface parameters. - No consequences if unloaded. - Dependent on conman.nlm. - Not loaded by default.
ifolder.nlm	ifolder	
ifolderu.nlm	ifolderu	
imghost.nlm	Host Coredump Image Receiver	- Host application used to receive network coredumps from a file server and requires DBNET6 for NetWare 6.x. There is also an imghost.exe version for Windows. - If unloaded, cannot receive network coredumps from a file server. - Works with rdbhost.nlm. - Not loaded by default.

Name	Description	Purpose
inetcfg.nlm	Internetworking Configuration	• Internetworking configuration utility used for configuring network adapters, protocols, and bindings. • Dependent on nwsnut.nlm and tui.nlm. • Not loaded by default. • For more information, see “INETCFG” in the <i>Utilities Reference for OES</i>.
inetlbjv.nlm	Java Native Method Library for inetlib.nlm	
inetlib.nlm	Netinfo.cfg Maintenance Library Production_28Mar2002	• Not loaded by default.
inews.nlm	Inews UCX Component	• Universal Component extension or a UCX component is an abstract unit of functionality. • Inews UCX component let scripts for accessing NNTP (Network News Transfer Protocol) compliant News servers be written.
info.nlm	Apache 2.0.44 Info Module	Provides a comprehensive overview of the Apache server configuration
infotgw.nlm	Infot NDPS Gateway	• Enables printing to Infotec printers. An alternative to the Novell gateway. Provides custom configuration and control for Infotec printers. • Unloading the gateway disables print support for the printers that are configured to use that gateway. • Gateways depend on eDirectory, the Web server for the iManager management consoles, and NDPS, which includes dplsv386.nlm, broker.nlm, ndpsm.nlm, and their dependencies. • Gateways are not loaded by default.
initcert.nlm	Certificate Initialization for XTier/NetIdentity	
initnici.nlm	NICI Initialization module	• Used at install time only to load NICI XENG XLM programs. • Doesn't stay loaded because it is used only during installation.

Name	Description	Purpose
initsdi.nlm	INITSDI from Novell, Inc.	- Creates or pulls down the Tree key from a specified server. This NLM program is obsolete as of NCI 2.0. - If loaded without any command line parameters and commands, it abends the server. If unloaded, it exits upon finishing its job. It was used by the NetWare installation before NetWare 6 to create or pull down the Tree key. - Dependent on several NLM programs, including ccs.nlm. - Not loaded by default.
instprox.nlm	Installation Supplement	- Installation utility for server proxy. - Not loaded by default.
io.nlm	Perl 5.8.0 - IO Extension XS_version: 1.20	
ioctl.nlm	ENG TEST - NetWare ioctl Manager	- ioctl routines for iSCSI. - May be unloaded with ioff.ncf or toff.ncf, depending on whether it is the initiator or the target respectively. - Used with debuglog.nlm, iscilib.nlm, iscinit.nlm, iscsinrm.nlm, iscsitar.nlm, iscsixml.nlm, and syslog.nlm. - Not loaded by default.
ioser12.nlm	Java ioser12 (Based on 1.4.1_01)	
ipclinfo.nlm	IP Client Info Module 17Dec99	Not loaded by default.
ipctl.nlm	Novell XTier Transport Layer	
ipflt.nlm	Novell TCP/IP Filter Support Module	- Wrapper NLM program that loads ipflt31.nlm. - If unloaded, unloads , which makes the system vulnerable to attacks. - Not loaded by default.
ipflt31.nlm	Novell TCP/IP Filter Module	- Provides the firewall functionality and secures the system. - If unloaded, the system is vulnerable to attacks. - Dependent on the following NLM programs: filterv.nlm, which maintains firewall configuration policies; tcpip.nlm, which provides control. - Not loaded by default.

Name	Description	Purpose
<code>ipmcfg.nlm</code>	Web Interface for NetWare IP Address Management and Configuration	- Provides the user interface for IP address management in Novell Remote Manager (NRM). You can access this interface by clicking the IP Address Management link in Novell Remote Manager. This utility lets you change the IP address or port that an application running on NetWare is using. - No consequences if unloaded. Functionality is not available from Novell Remote Manager. - Automatically loads <code>ipmgmt.nlm</code>. No hard-coded dependencies. Imports APIs from <code>npkiapi.nlm</code> and <code>portal.nlm</code>. - Loaded by default.
<code>ipmgmt.nlm</code>	TCPIP - NetWare IP Address Management	- Provides the basic framework to handle all IP address and port configuration. - If unloaded, all the applications that use IP address management fail to get and manage their address configurations. - Loaded by default.
<code>ipmjava.nlm</code>	TCPIP - NetWare IP Address Management JAVA NATIVE INTERFACE	- Java interface to IP address management module. - No applications in NetWare 6.5 use this NLM program. This is for future support. - Dependent on <code>ipmgmt.nlm</code>. - Not loaded by default.
<code>ippsrvr.nlm</code>	Novell iPrint Server	- Provides internet-based print service to IPP (iPrint) clients. - If unloaded, iPrint service is not available to iPrint clients. - Coordinates iPrint requests to the NDPS Manager (<code>ndpsm.nlm</code>). Retrieves information about printer drivers and the drivers themselves from the Resource Management Service (<code>rmansrvr.nlm</code>). - Loaded by <code>ndpsm.nlm</code> when printer agents are enabled for IPP (iPrint) service.
<code>iprelcfg.nlm</code>	IPRELAY Configuration Console	- Configures IP relay. - Auto-loaded and unloaded by <code>inetcfg.nlm</code>. - Dependent on <code>inetcfg.nlm</code>. - Not loaded by default.
<code>iptrace.nlm</code>	Trace Route Utility	- IP trace utility. - Not loaded by default.
<code>iptrace6.nlm</code>	Trace Route Utility	

Name	Description	Purpose
ipv6.nlm	Novell IPv6 Module Wave-I	
ipxcfg.nlm	IPX Configuration Console	• Cannot be unloaded. • Dependent on inetcfg.nlm.
ipxcon.nlm	IPX Router Management Console	• Use at the server console to monitor and troubleshoot IPX routers and network segments throughout your IPX internetwork, view the status of an IPX router or network segment, view all paths through which IPX packets can flow, locate all active IPX routers on your internetwork, and monitor remote IPX routers that are running NetWare IPX router software. • Not loaded by default.
ipxf.nlm	IPX Fragmentation Layer	• Not loaded by default.
ipxflt.nlm	IPX NLSP Filter	• Dependent on ipxrtr.nlm. • Not loaded by default.
ipxping.nlm	IPX Ping Console	• Use at the server console to check connectivity to an IPX server on your internetwork. • Not loaded by default.
ipxrtr.nlm	IPX NLSP Router Production_02Dec2001	• Not loaded by default.
ipxrtrnm.nlm	IPX Router Network Management	• Not loaded by default.
ipxs.nlm	NetWare STREAMS IPX Protocol	• Provides IPX protocol to NLM programs that require STREAMS-based IPX. • Not loaded by default.
ipxspx.nlm	NetWare IPX/SPX Protocol Stack NLM program	• Server communication protocol support module. • Not loaded by default on an IP-only server.
isamchk.nlm	MySQL ISAM Table Check Tool	
iscsilib.nlm	ENG TEST - NetWare iSCSI Library	• Common library routines for iSCSI. • May be unloaded with ioff.ncf or toff.ncf, depending on whether it is the initiator or the target respectively. • Used with debuglog.nlm, ioctl.nlm, iscininit.nlm, iscsinrm.nlm, iscsitar.nlm, iscsixml.nlm, and syslog.nlm. • Not loaded by default.

Name	Description	Purpose
iscsinit.nlm	ENG TEST - NetWare iSCSI Initiator	• Initiator executable code for iSCSI. • May be unloaded with <code>ioff.ncf</code>. Removes access to iSCSI devices. • Used with <code>debuglog.nlm</code>, <code>ioctl.nlm</code>, <code>iscsilib.nlm</code>, <code>iscsinrm.nlm</code>, <code>iscsitar.nlm</code>, <code>iscsixml.nlm</code>, and <code>syslog.nlm</code>. • Not loaded by default.
iscsinrm.nlm	ENG TEST - NetWare iSCSI NRM Plug-in	• Novell Remote Manager (NRM) management piece for iSCSI. • Can be unloaded with <code>ioff.ncf</code> or <code>toff.ncf</code>, depending on whether it is the initiator or the target respectively. • Used with <code>debuglog.nlm</code>, <code>ioctl.nlm</code>, <code>iscsilib.nlm</code>, <code>iscsinit.nlm</code>, <code>iscsitar.nlm</code>, <code>iscsixml.nlm</code>, and <code>syslog.nlm</code>. • Not loaded by default.
iscsitar.nlm	Novell iSCSI Target	• Target executable code for iSCSI. • Can be unloaded with <code>toff.ncf</code>. Removes access to iSCSI devices. • Used with <code>debuglog.nlm</code>, <code>ioctl.nlm</code>, <code>iscsilib.nlm</code>, <code>iscsinit.nlm</code>, <code>iscsinrm.nlm</code>, <code>iscsixml.nlm</code>, and <code>syslog.nlm</code>. • Not loaded by default.
iscsixml.nlm	ENG TEST - NetWare iSCSI XML Interface	• XML interface for iSCSI. • Can be unloaded with <code>ioff.ncf</code> or <code>toff.ncf</code>, depending on whether it is the initiator or the target respectively. • Used with <code>debuglog.nlm</code>, <code>ioctl.nlm</code>, <code>iscsilib.nlm</code>, <code>iscsinit.nlm</code>, <code>iscsinrm.nlm</code>, <code>iscsitar.nlm</code>, and <code>syslog.nlm</code>. • Not loaded by default.
isslib.nlm	Install Server-To-Server I/O Library	• Installation utility that provides CLib context for <code>nwconfig.nlm</code>. • Works with <code>nwconfig.nlm</code>. • Not loaded by default.

2.11 J

Name	Description	Purpose
jaas_nw.nlm	Java jaas_nw (Based on 1.4.1_01)	
java.nlm	java.nlm (Based on 1.4.1_01) (Build 03022715)	Starts the Novell JVM for NetWare at the server. The Novell JVM is comprised of several NLM programs that let the NetWare server run Java-based applications and applets, including multithreaded applications and applications that use a graphical interface. Executes the following command-line commands: applet, appletviewer, envset, extcheck, htmlconverter, idlj, jar, jarsigner, java, javac, javadoc, javah, javap, keytool, native2ascii, orbd, policytool, rmic, rmid, rmiregistry, serialver, servertool, and tnameserv.
java2ucs.nlm	Novell UCS - Java Extension	
javawtch.nlm	Install Java Watcher	
jbconsole.nlm	jBroker ORB Console	
jbroke11.nlm	jBroker ORB Native Library (JDK 1.1.x)	
jbroke12.nlm	jBroker ORB Native Library	
jbrunner.nlm	jBroker ORB Client Runner	
jclnt.nlm	NetWare JClient-Native (Build 1.2.1133)	- Provides JNI interface for jclient.jar. JClient consists of jclient.jar, jclntr.nlm, and jclnt.nlm. JClient provides DClient functionality to Java applications that run on NetWare. - If unloaded, the application that is making JClient calls receive exceptions until the NLM program is reloaded. - Dependent on jclntr.nlm, dsloader.nlm, and ds.nlm. - Not loaded by default.
jclntr.nlm	NetWare JClient-Native Resources (Build 1.2.1133)	- Resource for jclnt.nlm. - If unloaded, the application that is making JClient calls receives exceptions until the NLM program is reloaded. - Dependent on jclnt.nlm, dsloader.nlm and ds.nlm. - Not loaded by default.
jcov.nlm	Java jcov (Based on 1.4.1_01)	

Name	Description	Purpose
jdbc.nlm	Java Jdbc (Based on 1.4.1_01)	
jdwp.nlm	Java jdwp (Based on 1.4.1_01)	
jqcfcfg.nlm	jBroker MQ Configuration Utility	
jqmmon.nlm	jBroker MQ Server Monitor	
jqmrun.nlm	jBroker MQ Client Runner	
jqmserv.nlm	jBroker MQ Server	
jqmutil.nlm	jBroker MQ Destination Utility	
jncpv2.nlm	Native Wrapper Java Class Libraries for NetWare	
jndps.nlm	Native Wrapper Java Class Libraries for NDPS	• Java Native Interface between ndps.jar (NDPS Java Library) and dp1sv386.nlm (NDPS C Library). The iPrint plug-in for iManager uses this NLM program. • Dependent on dp1sv386.nlm. • Loaded by default.
jnet.nlm	Java jnet (Based on 1.4.1_01)	
jnsftp.nlm	Native Interface Module for NFS and FTP Administration	• If unloaded, NPS UI-based administration of NFS and FTP fail. • In NFS, dependent on xnfs.nlm and nfsc1ust.nlm for configuration information. • Not loaded by default. Loads when the NFS and FTP Administration page is first accessed.
jorbd.nlm	jBroker ORB Daemon	
jpeg.nlm	Java jpeg (Based on 1.4.1_01)	
jsas.nlm	Java Secure Authentication Services for NetWare	• Implementation that provides Java applications access to SSL via SAS. • If unloaded, applications such as DirXML can not provide SSL connections. • DirXML is dependent on jsas.nlm. • Not loaded by default.
jmsg.nlm	Jetstream Message Layer (Build 424 MP)	• Messaging interface for network communications. • If unloaded, DFS features in NSS and CIFS cannot function. • Dependent on NSS. • Loaded by default because Volume Manager is loaded by default.
jsock.nlm	Support For Java Sockets (Loader)	

Name	Description	Purpose
jsock6x.nlm	NetWare 6.x Support for Java Sockets (JDK 1.4.1)	
jsound.nlm	Java jsound (Based on 1.4.1_01)	
jstcp.nlm	Jetstream TCP Transport Layer (Build 413 MP)	• TCP transport for jsmg.nlm. • If unloaded, DFS features in NSS and CIFS cannot function. • Dependent on WinSock and NSSP. • Loaded by default because Volume Manager is loaded by default.
jvm.nlm	Java Hotspot 1.4.1_01 Interpreter	
jvmlib.nlm	Java jvmlib (Based on 1.4.1_01)	

2.12 K

Name	Description	Purpose
keyb.nlm	NetWare National Keyboard Support	• Reports the keyboard type of your server console. Supports the specified keyboard type for the server console. • If unloaded, the server keyboard type defaults to the U.S. 101 Keyboard ("U.S. International" in the NetWare installation). • Works with charset.nlm to support 13 non-English languages display. On Japanese servers, charset.nlm is not needed for this support. • Loaded by default only if the installer specified a non-English keyboard during NetWare installation. • For more information, see "KEYB" in the <i>Utilities Reference for OES</i>.
kycon.nlm	Kyocera Printer Gateway Console	• Enables printing to Kyocera* printers. An alternative to the Novell gateway. Provides custom configuration and control for Kyocera printers. • Unloading the gateway disables print support for the printers that are configured to use that gateway. • Gateways depend on eDirectory, the Web server for the iManager management consoles, and NDPS, which includes dplsv386.nlm, broker.nlm, ndpsm.nlm, and their dependencies. • Gateways are not loaded by default.

Name	Description	Purpose
kygate.nlm	Kyocera NDPS Gateway	• Enables printing to Kyocera printers. An alternative to the Novell gateway. Provides custom configuration and control for Kyocera printers. • Unloading the gateway disables print support for the printers that are configured to use that gateway. • Gateways depend on eDirectory, the Web server for the iManager management consoles, and NDPS, which includes dplsv386.nlm, broker.nlm, ndpsm.nlm, and their dependencies. • Gateways are not loaded by default.
kylib.nlm	Kyocera Printer Gateway Library	• Enables printing to Kyocera printers. An alternative to the Novell gateway. Provides custom configuration and control for Kyocera printers. • Unloading the gateway disables print support for the printers that are configured to use that gateway. • Gateways depend on eDirectory, the Web server for the iManager management consoles, and NDPS, which includes dplsv386.nlm, broker.nlm, ndpsm.nlm, and their dependencies. • Gateways are not loaded by default.
kypnp.nlm	Kyocera Printer Gateway Plug and Print	• Enables printing to Kyocera printers. An alternative to the Novell gateway. Provides custom configuration and control for Kyocera printers. • Unloading the gateway disables print support for the printers that are configured to use that gateway. • Gateways depend on eDirectory, the Web server for the iManager management consoles, and NDPS, which includes dplsv386.nlm, broker.nlm, ndpsm.nlm, and their dependencies. • Gateways are not loaded by default.

2.13 L

Name	Description	Purpose
ladd.nlm	ladd	• CLib version of LDAP add entry tool. • Stand-alone LDAP tool. • Dependent on ldapsdk.nlm and clib.nlm. • Not loaded by default.
langman.nlm	Novell Cross-Platform Language Manager	• Novell Cross-Platform Language Manager as an XIS server. Functionality is the same as langmani.nlm. • If unloaded, all messages from eMBox don't work. • Dependent on xi18n.nlm and libc.nlm. • Loaded by default with eMBox.
langmani.nlm	Novell Cross-Platform Language Manager	• Independent build of the language manager, a cross-platform internationalization package. It provides message retrieval and formatting, string conversion, and manipulation services. • If unloaded, all messages from the applications that are built on it do not work. Those applications currently include ice, backupcr, and ndsimon. • Dependent on xi18n.nlm and libc.nlm. • Loaded by default with ndsimon.
laniegw.nlm	Lanier NDPS Gateway	• Enables printing to Lanier printers. An alternative to the Novell gateway. Provides custom configuration and control for Lanier printers. • Unloading the gateway disables print support for the printers that are configured to use that gateway. • Gateways depend on eDirectory, the Web server for the iManager management consoles, and NDPS, which includes dplsv386.nlm, broker.nlm, ndpsm.nlm, and their dependencies. • Gateways are not loaded by default.

Name	Description	Purpose
lburp.nlm	LDAP Bulkload Update/Replication Protocol Service Extension for Novell eDirectory 8.7	• Implements the LBURP server. • If unloaded, you can't use LBURP for ICE operations while bulkloading. This increases the time for bulkloading data into eDirectory. • Dependent on ldap.nlm. • Loaded by default.
ldaphdlr.nlm	Novell Import Convert Export Utility	• Implements the LDAP handler of ICE. • Loaded only when ICE is being executed with LDAP as one of its handlers. Unloads with ICE. • Dependent on ldapsdk.nlm. • Not loaded by default.
ldapsdk.nlm	LDAP SDK Library (CLib Version)	• Provides LDAP Client access to eDirectory and any LDAP 3 directory. CLib version of LDAP client library. Exposes all LDAP interfaces. • Many NLM programs are dependent on it. Dependent on libc.nlm, threads.nlm, and ws2_32.nlm. • Loaded by default.
ldapssl.nlm	NetWare SSL Library for LDAP SDK (CLib Version)	• TLS / SSL support for LDAP. CLib version of LDAP client security library. Exposes security interfaces. • Cannot be unloaded without unloading ldapsdk.nlm. • Dependent on ldapsdk.nlm, clib.nlm, threads.nlm, and nlmllib.nlm. • Not loaded by default.
ldapx.nlm	NetWare Extension APIs for LDAP SDK (CLib Version)	• LDAP Client Extensions, such as supporting LDAP extended calls for events and partition and replica information. • Cannot be unloaded without unloading ldapsdk.nlm. • NMAS proxy for CIFS is dependent on ldapx.nlm. Dependent on ldapsdk.nlm, clib.nlm, and threads.nlm. • Loaded by default.
ldapxs.nlm	CLib Version	• The server portion of the LDAP extensions. • Should not be unloaded without unloading nldap.nlm. • Dependent on nldap.nlm. • Loaded by default.

Name	Description	Purpose
lddelete.nlm	lddelete	• CLib version of LDAP delete entry tool. • Stand-alone LDAP tool. • Dependent on ldapsdk.nlm and clib.nlm. • Not loaded by default.
ldif.nlm	Novell Import Convert Export Utility	• Implements the LDIF handler of ICE. • Loaded when ICE is being executed with LDIF as one of its handlers. Gets loaded on demand by ICE only. • Not loaded by default.
lfs.nlm	Logical File System NLM	• Loadable file system piece that allows different file systems to be loaded on NetWare. • Not intended to be unloaded. If unloaded, the server abends. • Dependent on connmgr.nlm to be loaded before it is loaded. • Loaded by default.
lib0.nlm	Ring 0 Library for NLM programs	• Ring 0 portion of the CLib modules. • Not possible to unload this NLM program because too many applications have hard dependencies on it. • Dependent on LibC. • Loaded by default.
libc.nlm	Novell Kernel Services and Standard C Runtime Library for NLM programs (optimized, 3)	• Provides all standard C interfaces to applications available on NetWare. Also provides interfaces to legacy applications where possible. • Not possible to unload this NLM program, because too many applications have hard dependencies on it. • Does not depend on any NLM programs, but does consume interfaces from other NLM programs as they come up. Examples include NSS NLM programs, legacy file system NLM programs, TCPIP NLM programs, ccs.nlm, and winsock.nlm. • Loaded by default.

Name	Description	Purpose
libcclib.nlm	Context Broker	- Context broker for NLM programs that are written to LibC, but must provide CLib context to its threads for calls into CLib-based libraries. This solution is not recommended. Porting libraries that are being used to LibC is the preferred solution. - If unloaded, there is severe malfunctioning of NetWare, possibly an abend. - Dependent on nit.nlm, nlmllib.nlm, requestr.nlm, threads.nlm, libc.nlm, and clib.nlm. - In some installations, if an NLM program that is using this solution is being loaded by default, then an instance of libcclib.nlm is loaded by default. This is a multiload NLM program.
libmysql.nlm	MySQL* Client Library	- MySQL Shared Client Library - Dependent on libc.nlm and bsdsock.nlm. - Not loaded by default.
libnss.nlm	Generic Library Used by NSS (Build 101)	- NSS library modules. - Cannot unloaded without unloading all NSS NLM programs. - Autoloads with NSS. - Loaded by default.
lic_api.nlm	License APIs IP020A.G03	
licmaint.nlm	License Maintenance IP0200.G01	- Use to add or delete licenses. - Not loaded by default.
lictool.nlm	jBroker ORB License Tool	
listnc.nlm	jBroker ORB List Name Service Utility	
listserv.nlm	jBroker ORB List Server Utility	
llad.nlm	llad	- LibC version of LDAP add entry tool. - Stand-alone LDAP tool. - Dependent on lldapsdk.nlm and libc.nlm. - Not loaded by default.
llc8022.nlm	Novell 802.2 Stack	802.2 protocol stack. Was used by NetWare for SAA. - Dependent on the SAA subsystem, which does not work on NetWare 6.5. - Not loaded by default.

Name	Description	Purpose
lldapsdk.nlm	LDAP SDK Library (LibC Version)	• LibC version of LDAP client library. Exposes all LDAP interfaces. • Used by utilldap.nlm, authldap.nlm, and other NLM programs. • Dependent on libc.nlm and ws2_32.nlm. • Loaded by default.
lldapssl.nlm	NetWare SSL Library for LDAP SDK (LibC Version)	• LibC version of LDAP client security library. Exposes security interfaces. • Used by utilldap.nlm. • Dependent on lldapsdk.nlm and libc.nlm. • Not loaded by default.
lldapx.nlm	NetWare Extension APIs for LDAP SDK (LibC Version)	• LibC version of LDAP extensions to eDirectory library. • Dependent on lldapsdk.nlm and libc.nlm. • Loaded by default.
lldelete.nlm	lldelete	• LibC version of LDAP delete entry tool. • Stand-alone LDAP tool. • Dependent on lldapsdk.nlm and libc.nlm. • Not loaded by default.
llmodify.nlm	llmodify	• LibC version of LDAP modify entry tool. • Stand-alone LDAP tool. • Dependent on lldapsdk.nlm and libc.nlm. • Not loaded by default.
llmodrdrn.nlm	llmodrdrn	• LibC version of LDAP rename entry tool. • Stand-alone LDAP tool. • Dependent on lldapsdk.nlm and libc.nlm. • Not loaded by default.
llsearch.nlm	llsearch	• LibC version of LDAP search entry tool. • Stand-alone LDAP tool. • Dependent on lldapsdk.nlm and libc.nlm. • Not loaded by default.

Name	Description	Purpose
lmodrdrn	lmodrdrn	• CLib version of LDAP rename entry tool. • Stand-alone LDAP tool. • Dependent on ldapsdk.nlm and clib.nlm. • Not loaded by default.
loadtest.nlm	Load Test Program 4.2, 5.1+	
locnlm32.nlm	NetWare NWLocale Runtime Library	• Locale interfaces for developers. • Cannot be unloaded. • Dependent on unicode.nlm, uni_mon.nlm, uni_upr.nlm, and the NLM program for the current code page. All numbered Unicode NLM programs depend on it.
log28.nlm	mod_perl-2.0 Extension (Log) XS_version: 0.01	
logger.nlm	eDirectory Management Tool Box Logger 8.7	• Provides logging functions for eMBox. • If unloaded, no logging functions are available; however, eMBox can still function properly. • Dependent on statuslg.nlm. • Loaded when eMBox is loaded.
logres.nlm	Apache 2.0.44 Logresolve Utility for NetWare	
lpr2ndps.nlm	NDPS Utility to Accept UNIX Jobs via LPR	• Allows LPR-based clients (UNIX, Macintosh*, etc.) to submit jobs to iPrint. Sometimes called the LPR server or LPR front-end to iPrint. • Unloading breaks the ability to support LPR-based clients and is not recommended when the print manager is running. • Dependent on dplsv386.nlm, dsapi.nlm, clib.nlm, the OS, and others. Its primary value is through communication with the print manager. • Loaded by the print manager (ndpsm.nlm) when the manager starts a Printer Agent for which LPR-client support has been enabled.
lsapi.nlm	NLS LSAPI Library	• Licensing client library for NLM applications. • If unloaded, it is reloaded by polimgr.nlm. • Dependent on clib.nlm. • Loaded by default.

Name	Description	Purpose
lsearch.nlm	lsearch	• CLib version of LDAP search tool. • Stand-alone LDAP tool. • Dependent on ldapsdk.nlm and clib.nlm. • Not loaded by default.
lsl.nlm	Novell NetWare Link Support Layer	• Provides LAN interface APIs between the protocol stacks and the LAN adapters. • If unloaded, you can not send or receive packets. You can not load LAN drivers or protocol stacks. • The protocol stacks TCPIP, IPX, SPX are dependent on it. The LAN drivers are also dependent on it. • Loaded by default.

2.14 M

Name	Description	Purpose
makenis.nlm	NetWare NFS - NIS Map Migration Utility	• Dependent on ndsilib.nlm. • Not loaded by default.
malhlp.nlm	NSS Configure Help Messages	• Help file for mal.nss. • Cannot unload without unloading all NSS NLM programs. • Autoloads with NSS. • Not loaded by default.
malhlp9.nlm	NSS Configure Help Messages	• Help file for mal.nss. • Cannot unload without unloading all NSS NLM programs. • Autoloads with NSS. • Not loaded by default.
map3xids.nlm	SMS NetWare 4.1x Map 3.1x Bindery IDs to NDS Names	• Helps to map Bindery IDs to NDS names • No consequences if unloaded. • Not dependent on other NLM programs. • Not loaded by default.
mapdav.nlm	Novell XTier Mapped Drives DAV Store	

Name	Description	Purpose
masv.nlm	Mandatory Access Control Service	- Provides graded authentication to volumes and ds attributes. - If unloaded, ds.nlm and nss.nlm can not load. - Dependent on nmas.nlm and ds.nlm. - Loaded by default.
mathlib.nlm	NetWare Math Library Auto-Load Stub	- A stub NLM program. Allows old NLM programs that have hard load dependencies on it to be able to load. - If loaded by default, it is because some NLM program that is old or that has never been updated in this way loads by default.
mathlibc.nlm	NetWare Math Emulator Library Auto-Load Stub	- A stub NLM program. Allows old NLM programs that have hard load dependencies on it to be able to load. - If loaded by default, it is because some NLM program that is old or that has never been updated in this way loads by default.
mdmconvt.nlm	Modem Script Conversion NLM IP0200.G01	- Scripting utility to create and edit modem and login scripts. - Not loaded by default.
mem_cach.nlm	Apache 2.0.44 Memory Cache Sub-Module	
mergecr.nlm	eDirectory Management Tool Box DSMerge eMTool 8.7	- Provides core functionality to merge trees. - Mergetl.nlm must be unloaded before mergecr.nlm can be unloaded. - Emboxmgr.nlm must be unloaded before mergecr.nlm can be unloaded. - Unloading emboxmgr.nlm unloads mergetl.nlm and mergecr.nlm. - Dependent on embox.nlm and related NLM programs. - Loaded by default. Loaded with the eMBox when ds.nlm loads.
mergetl.nlm	eDirectory Management Tool Box DSMerge eMTool 8.7	- Connects eMBox to mergecr.nlm - Must be unloaded before mergecr.nlm can be unloaded. Emboxmgr.nlm must be unloaded before it can be unloaded. - Unloading emboxmgr.nlm unloads mergetl.nlm and mergecr.nlm. - Requires mergecr.nlm to be loaded. - Loaded by default. Loaded with eMBox when ds.nlm loads.
miglib.nlm	Migration Library	Upgrade Wizard NLM program.

Name	Description	Purpose
mimemagi.nlm	Apache 2.0.44 Mime Magic Module	Determines the MIME type of a file by looking at a few bytes of its contents
minogw.nlm	Minolta PageScope NDPS Gateway	- Enables printing to Minolta printers. An alternative to the Novell gateway. Provides custom configuration and control for Minolta printers. - Unloading the gateway disables print support for the printers that are configured to use that gateway. - Gateways depend on eDirectory, the Web server for the iManager management consoles, and NDPS, which includes dplsv386.nlm, broker.nlm, ndpsm.nlm, and their dependencies. - Gateways are not loaded by default.
mkc.nlm	MicroKernel Cursor Library	Btrieve-related file.
mkslave.nlm	NetWare NFS - NIS Slave Server Support Utility	- Dependent on pkernel.nlm, netdb.nlm, nisbind.nlm, dsapi.nlm, and clib.nlm. - Not loaded by default.
mllib.nlm	Java 1.4 Imaging and Media Library for NetWare	
mm.nlm	NetWare 6.5 Media Manager	- Provides the application and file system access to all storage devices. It includes support for Mirroring, RAID0, 1, 5, and snapshot. It is used to create partitions on the hard drives and manages all the storage devices. - You cannot unload mm.nlm. Without it, the server does not load. It is critical to the entire system. - Dependent on the kernel, cdbe.nlm and sguid.nlm. - Loaded by default.
mmnative.nlm	Media Manager Java Native Methods	- Java support module for the Media Manager APIs. - If unloaded, Java support for Media Manager APIs is removed. - Dependent on mm.nlm. - Not loaded by default.
mod_cach.nlm	Apache 2.0.44 Cache Module	Content cache keyed to URIs.
mod_dav.nlm	Apache 2.0.44 DAV Module	Distributed Authoring and Versioning (WebDAV) functionality
mod_edir.nlm	Apache 2.0.44 eDirectory Authorization Module (Beta)	

Name	Description	Purpose
mod_ipp.nlm	iPrint Module	
mod_jk.nlm	Apache 2.0 Plug-in for Tomcat	
mod_nsn.nlm	NSN - Apache interface Module	
mod_perl.nlm	Apache 2 Extension for Running Perl Scripts and Modules	
mod_php.nlm	PHP 4.2.3 - Apache 2.0 Module	
mod_wsi.nlm	Apache WSI Module	
mod_xsrv.nlm	Novell XTier Server (Apache 2 Module)	
moddavfs.nlm	Apache 2.0.44 DAV FileSystem Sub-Module	
modlogio.nlm	Apache 2.0.44 IO Logging Module	
module27.nlm	mod_perl-2.0 Extension (Module) XS_version: 0.01	
monitor.nlm	NetWare Console Monitor	• Server configuration and statistics. • Dependent on nwsnut.nlm. • Not loaded by default. • For more information, see “MONITOR” in the <i>Utilities Reference for OES</i>.
mondata.nlm	NetWare 5.x/6.x Monitor MIB	• SNMP agent that provides monitor information. • If unloaded, SNMP Manager does not receive monitor information. • Dependent on clib.nlm. • Not loaded by default.
mpkagent.nlm	NetWare 5.x/6.x MPK Instrumentation	• SNMP Agent that provides MPK information. • If unloaded, SNMP Manager does not receive MPK information. • Dependent on clib.nlm. • Not loaded by default.

Name	Description	Purpose
mqigatew.nlm	Minolta-QMS, Inc. NDPS Gateway NLM program	• Enables printing to QMS* printers. An alternative to the Novell gateway. Provides custom configuration and control for QMS printers. • Unloading the gateway disables print support for the printers that are configured to use that gateway. • Gateways depend on eDirectory, the Web server for the iManager management consoles, and NDPS, which includes dplsv386.nlm, broker.nlm, ndpsm.nlm, and their dependencies. • Gateways are not loaded by default.
msm.nlm	Novell Multi-Processor Media Support Module	• Media Support Module used by LAN drivers. • Typically cannot be unloaded without unloading the LAN driver. • Modules like ethertsm.nlm are dependent on msm.nlm. • Loaded by default.
my_print_defaults.nlm	MySQL Print Defaults Tool	
myisamchk.nlm	MySQL MyISAM Table Check Tool	
myisamlog.nlm	MySQL MyISAM Table Log Tool	
myisampack.nlm	MySQL MyISAM Table Pack Tool	
mysql.nlm	MySQL Monitor	
mysql_install_db.nlm	MySQL Initial Database Installer	
mysql_test_run.nlm	MySQL Test Case Tool	
mysql_waitpid.nlm	MySQL NLM program	
mysqladmin.nlm	MySQL Admin Tool	
mysqlbinlog.nlm	MySQL Binary Log Dump Tool	
mysqlcheck.nlm	MySQL Check Tool	
mysqld.nlm	MySQL Database Server	

Name	Description	Purpose
mysqldump.nlm	MySQL Dump Tool	
mysqld_safe.nlm	MySQL Database Server Monitor	
mysqlimport.nlm	MySQL Import Tool	
mysqlmanager.c.nlm	MySQL NLM program	
mysqlmanager-pwgen.nlm	MySQL NLM program	
mysqlshow.nlm	MySQL Show Tool	
mysqltest.nlm	MySQL Test	

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Name	Description	Purpose
n_prddat.nlm	n_prddat	• wpsd.nlm is dependent on it.
named.nlm	eDirectory Integrated Novell DNS Server	• Provide the DNS server functionality. • Should be always loaded on the NetWare servers that are functioning as DNS servers. Unloading the NLM program makes DNS Server services unavailable from the NetWare server. • Dependent on ipmcfg.nlm, snmp.nlm, clib.nlm, tcpip.nlm, netdb.nlm, csatpxy.nlm, and csaudit.nlm. • Not loaded by default.
nat.nlm	Novell Network Address Translator (NAT)	• Provides Network Address Translation functionality. • If unloaded, internal addresses are exposed to the external world. • Dependent on tcpip.nlm for control. • Not loaded by default.

Name	Description	Purpose
nbi.nlm	NetWare Bus Interface	• Hardware Abstraction Layer providing the capability for drivers to detect their advanced bus (nonlegacy ISA) hardware. It also provides drivers with a standard mechanism for retrieving their hardware's configuration information. It also provides bus hardware detection capabilities to driver installation and configuration utilities. • Novell recommends you do not unload this NLM program. • Dependent on cdb.nlm. All LAN and DISK support modules are dependent on nbi.nlm. • Loaded by default in Stage 0.
nc.nlm	NControl - NLM Library	• Reports machine configuration. • Techwalk.nlm is dependent on it. • Not loaded by default.
ncfs.nlm	Novell Remote File System Access Module	
ncfupd.nlm	Update NCF File	• Installation utility for updates to driver entries in autoexec.ncf. • Not loaded by default.
nciom.nlm	Novell XTier File I/O Manager	
ncm.nlm	Novell Configuration Manager	• Configuration Manager for PCI Hot Plug. Performs message translation between ncmcon.nlm and System Bus Drivers. Obtains configuration information for ncmcon.nlm and distributes it as needed. • If unloaded, PCI Hot Plug support is lost. • Dependent on nbi.nlm, neb.nlm, clib.nlm, and ncmcon.nlm. Some sbd drivers are dependent on it, such as cpqsbd.nlm, ibmsbd.nlm, phpsbd.nlm, and dellsbdl.nlm. • Not loaded by default. Usually loaded automatically by a platform specific System Bus Driver or ncmcon.nlm.
ncma.nlm	Remote Access Management Agent Moab.ndk	• NetWare connect management agent. • Not loaded by default.

Name	Description	Purpose
ncmcon.nlm	Novell Configuration Manager Console	- Provides support for performing PCI Hot Plug operations on machines that are capable of PCI Hot Plug. It also provides a limited amount of information for PCI slots on systems that do not support PCI Hot Plug. - Dependent on neb.nlm, ncm.nlm, sbd.nlm, and odineb.nlm. - Not loaded by default. On systems that support PCI Hot Plug, an entry is added to the autoexec.ncf file that is commented out. If the administrator uncomments the line, then it is loaded by default. - For more information, see “NCMCON” in the <i>Utilities Reference for OES</i>.
ncp.nlm	NetWare Core Protocol™ (NCP™) Engine	- NetWare Core Protocol engine NLM program. - Not intended to be unloaded. If unloaded, the server abends. - Dependent on connmgr.nlm, lfs.nlm, filesys.nlm, and queue.nlm. - Loaded by default.
ncpfsp.nlm	Novell XTier NCP File System Provider Driver	
ncpip.nlm	NetWare NCP Services over IP	- Provides access to NCP services over TCP and UDP. - If unloaded, clients and servers are unable to connect to this server's NCP services over TCP and UDP. - Dependent on connmgr.nlm and ncp.nlm. - Loaded by default.
ncpipx.nlm	Novell NCP/IPX Stack NLM program	- NCP over IPX protocol services NLM program. - After it is loaded, it is not intended to be unloaded. If an unload is attempted, the server abends. - Dependent on connmgr.nlm, lfs.nlm, filesys.nlm, ipxspx.nlm, and queue.nlm. - Not loaded by default.
ncpl.nlm	Novell XTier Base Services	

Name	Description	Purpose
ncpn32.nlm	NetWare NWNCP Runtime Library	- Internal support used by all cross-platform NLM programs. - If unloaded, cross-platform APIs are not available. - Dependent on CLib NLM programs. All cross-platform NLM programs are dependent on it. - Not loaded by default.
ndo.nlm	NSN - NetWare Data Object	
ndpds.nlm	NDPS Print Device Subsystem for NetWare Servers	- An iPrint gateway. Functions with ph.nlm to provide communication between iPrint and the actual printer for job data and printer status and control. This is an older gateway that provides little or no status and control, but is useful where older protocols are required to communicate with the printer. Protocols supported for job transmission include server-connected parallel and serial ports and Remote Printer (RP) protocol on IPX. LPR on IP is also supported, but is better supported by the ndpsgw.nlm gateway. - Unloaded automatically when the print manager shuts down the last Printer Agent for which they are operating. Unloading the ph.nlm causes an unload of the ndpds.nlm. - The ndpds.nlm is dependent on dplsv386.nlm, pfpnpd.nlm, pfplib.nlm, dsapi.nlm, clib.nlm, the OS, and others. Its primary value is through communication with the print manager and ph.nlm. - Loaded by the print manager when the manager starts a Printer Agent that is configured to use these particular NLM programs for its gateway. They can also be loaded manually for test purposes and to get help and current configuration information, but only if the print manager is already loaded. Ph.nlm must be loaded before the ndpds.nlm can load successfully.

Name	Description	Purpose
ndpsgw.nlm	NDPS Gateway for NetWare Servers	- An iPrint gateway. Provides communication between iPrint and the actual printer for both job data and printer status and control. The current version uses LPR-type job transmission and SNMP for status and control. This is the recommended gateway. - Unloaded automatically when the print manager shuts down the last Printer Agent for which it is operating. It can also be unloaded manually on a per Printer Agent basis or as a whole for test purposes. Doing so changes the status on any affected Printer Agent to "Not Bound [to a Gateway]". - The NLM program is dependent on dplsv386.nlm, dsapi, cllib, winsock2 and Berkeley sockets, the OS, and others. Primary value is through communication with the print manager. - Loaded by the print manager when the manager starts a Printer Agent that is configured to use this particular NLM for its gateway. It can also be loaded manually for test purposes and to get help and current configuration information, but only if the print manager is already loaded.
ndpsm.nlm	NDPS Manager	- Provides NDPS print service to NDPS (client32) clients. Supports legacy print queues. Accepts requests from other NLM programs that support LPR, iPrint, etc. Accepts management and query requests from jndps.nlm. - If unloaded, NDPS print service is not available. Other print protocols (including iPrint and LPR) are not available. - Interacts with NDPS brokered services: ntfysrvr.nlm, regsrvr.nlm, and rmansrvr.nlm. Dependent on dplsv386.nlm and dprpcnlm.nlm. Depending on configuration, it loads ndpds.nlm, ndpsgw.nlm, ippsrvr.nlm, and lpr2ndps.nlm. - For more information, see "iPrint Print Manager" in the <i>Utilities Reference for OES</i>.
ndpsmib.nlm	NetWare 5.x/6.x NDPS Resources MIB	

Name	Description	Purpose
nds2ldap.nlm	Novell Directory Services® nds2ldap	• An LDAP extension. Replaced by ldapx.nlm. • If unloaded, an LDAP extension do not work. • Loads when nldap.nlm loads.
nds4.nlm	Novell XTier Directory Manager NDAP Provider	
ndsaudit.nlm	Directory Services Audit	• Nmas.nlm and ds.nlm depend on it.
ndsilib.nlm	NetWare NFS - eDirectory Interface Library	• Dependent on dsapi.nlm, clib.nlm, netdb.nlm, nss.nlm, and nisbind.nlm. • Loaded by default.
ndsimon.nlm	NDS iMonitor 2.1.0	• Web-based alternative or replacement for many of Novell's traditional server-based eDirectory tools such as DSBROWSE, DSTRACE, DSDIAG, and the diagnostic features available in DSREPAIR. • If unloaded, users can not use a browser to connect to and diagnose the Novell eDirectory server, unless an instance of NDS iMonitor is running on another server that can itself query the affected server. Even then, certain privileged functions like repair, trace, and report scheduling are not available without NDS iMonitor running on the affected server. • Direct dependencies on sal.nlm, httpstk.nlm, dhost.nlm, and langmani.nlm. • Loaded by default.
nds lpp.nlm	Novell XTier NDS Logical Path Provider Driver	
neb.nlm	Novell Event Bus	• Provides event production and consumption services. • Cannot be unloaded. Neb.nlm is used by so many NetWare basic functionality modules that it is not possible to remove the dependencies that use it. • The following modules are dependent on neb.nlm: mm.nlm, nwpa.nlm, nss.nlm, comm.nss, zlss.nss, servinst.nlm, hwdetect.nlm, and cifs.nlm. • Loaded by default.
netbasic.nlm	NSN - NetBasic To NSN Redirector	• Provides the message that NetBasic* 6 is not supported on NetWare 6.5 and recommends using NSN instead. • Not loaded by default.

Name	Description	Purpose
netdb.nlm	Network Database Access NLM	• NetWork Database Access Module for DNS and NIS queries. • If unloaded, netdb resolution APIs are not available. • Many modules use name resolution APIs of netdb.nlm. • Loaded by default, mostly as dependent modules are loaded via autoexec.ncf.
netlib.nlm	Novell TCPIP NETLIB Module	• A library of the entire stack of tcp.nlm, tcpip.nlm, and bsdsock.nlm—one version that runs with both the secure and non-secure versions of these NLM programs. • Cannot be unloaded. • Dependent on tcpip.nlm. • Tcpip.nlm autoloads netlib.nlm.
netlib11.nlm	mod_perl-2.0 Extension (NetLib) XS_version: 0.01	
netnlm32.nlm	NetWare NWNNet Runtime Library	• eDirectory APIs. • If unloaded, cross-platform APIs are not available. • Dependent on CLib NLM programs. Many NLM programs are dependent on it. • Not loaded by default.
netstat.nlm	NetWare TCPIP Statistics Command	• Prints network connections, routing tables, interface statistics, protocol statistics. • No consequences if unloaded. • Dependent on conman.nlm and netdb.nlm. • Not loaded by default.
nfap4nrm.nlm	NFAP Simple Password Management NLM program	• Library interface between NFAP (native file access pack) and NRM. Both CIFS and AFPTCP file protocols use this layer as a communication path for their management that is done through NRM. • Loaded when either cifs.nlm or afptcp.nlm is loaded. • Not loaded by default.

Name	Description	Purpose
<code>nfauupg.nlm</code>	NetWare NFS - Configuration Upgrade Utility	- Automatically invoked to upgrade the default configuration of NetWare NFS Services 2.x or 3.0 when you choose Native File Access for UNIX while upgrading the operating system from NetWare 4.x or NetWare 5.x to NetWare 6.0. When invoked during installation, the upgrade utility retains the existing configuration into the new configuration files, <code>nfs.cfg</code>, <code>nis.cfg</code>, and <code>nfsserv.cfg</code> located in <code>sys:\etc</code>. The existing configuration files <code>nfsthost</code>, and <code>nfsexprt</code> are retained. During installation, if N4S schema is detected, then the UAM schema gets extended automatically to support features, such as, multiple domain support, RFC2307 compliance for NIS, and starting and stopping NIS services from ConsoleOne. - Loaded at installation.
<code>nfsadmin.nlm</code>	NetWare NFS - ConsoleOne Administration Support Module	- If unloaded, ConsoleOne administration is not available. - Dependent on <code>netdb.nlm</code> and <code>pkernel.nlm</code>. - Loaded by default.
<code>nfsclust.nlm</code>	NetWare NFS - Cluster Support Module	- If unloaded, NFS functionality in clustered environment is not available. - Not loaded by default.
<code>niagent.nlm</code>	NIS Remote NLM Services	- Installation utility for server proxy. - Not loaded by default.
<code>niam.nlm</code>	Novell XTier Identity Manager	
<code>nidelay.nlm</code>	NIS Delay	- Installation utility used to launch GUI portion of installation. - Not loaded by default.
<code>nifif.nlm</code>	Novell XTier WebDav iFolder Namespace	

Name	Description	Purpose
nile.nlm	Novell Secure Socket Services NLM program with Debug Symbols	- Provides SSL functionality to applications using SSL through the WinSock IOCTL interface, for example Portal. - You cannot unload nile.nlm. - Dependent on nwutil.nlm, pkiapi.nlm, and pki.nlm on NetWare releases prior to NetWare 6.5. For NetWare 6.5, it is dependent on nwutil.nlm, npkiapi.nlm, pkiapi.nlm, pki.nlm, and npkit.nlm. - Loaded by default.
nindex.nlm	nindex	- Creates, lists, suspends, resumes, or deletes eDirectory indexes. - Stand-alone tool. Exits after it has performed the task. - Not loaded by default. - For more information, see ndsindex (http://developer.novell.com/ndk/doc/cldap/index.html?page=/ndk/doc/cldap/toolenu/data/ak6rm9w.html).
ninnetbs.nlm	NIS NetBasic Interface	
ninpdatb.nlm	NIS products.dat Interface	
ninspawn.nlm	NIS Native Spawn Interface	
ninw.nlm	NIS Java Native Library	
nio.nlm	Java nio (Based on 1.4.0)	
nipped.nlm	NetWare 5.x, 6.x INF File Editing Library - NIPPED	- INF file editor - Used to read and modify .inf, .ini, and .reg files. Integral to print. - Dependent on clib.nlm. - Not loaded by default.
nippzlib.nlm	General Purpose ZIP File Library for NetWare	- Zip and unzip technology used to compress and decompress driver files. - Integral to print. - Dependent on clib.nlm and zlib.nlm. - Not loaded by default.
nirman.nlm	TCP/IP - NetWare Internetworking Remote Manager	- Novell Remote Manager (NRM)-based snap-in for remote configuration of TCP/IP. - If unloaded, remote configuration of TCP/IP through NRM is not possible. - No hard-coded dependencies. Imports APIs from npkiapi.nlm and portal.nlm. - Loaded by default through ipminit.ncf, which is loaded through autoexec.ncf.

Name	Description	Purpose
nirmv.nlm	NIS Initialization for UNINSTALL	
nisbind.nlm	NetWare NFS - NIS Client Module	• Provides NIS client functionality. • Dependent on unicrypt.nlm, netdb.nlm, pkernel.nlm, dsapi.nlm, and clib.nlm. • Loaded by default.
nisetup.nlm	NIS Setup Screen	
nisinst.nlm	NetWare NFS - NIS Server Install Utility	• Dependent on ndsilib.nlm. • Loaded at installation.
nisp.nlm	NIS Service Provider	• Installation utility for server proxy. • Not loaded by default.
nisp2.nlm	NIS Service Provider 2	
nisserv.nlm	NetWare NFS - NIS Server	• Network Information Service (NIS) software lets you administer both UNIX and NetWare from a single point, namely eDirectory. • If unloaded, NIS services are not available. • Dependent on unicrypt.nlm, ndsilib.nlm, nisbind.nlm, and nisswdd.nlm. • Loaded by default.
nisswdd.nlm	NetWare NFS - NIS Password Management Support Module	• Sets NIS password in user's UNIX profile in eDirectory • Dependent on pkernel.nlm, unicrypt.nlm, and nisbind.nlm. • Loaded by default.
nisw.nlm	NativeMethods Java Native Library	
nit.nlm	NetWare Interface Tools Library for NLM programs	• Server library (CLib) support module. • Cannot unload because there are dozens of low-level components (such as TCPIP, PKI, and NWregistry) that use it. • Dozens of dependencies. To see the full list of everything currently using any given NLM program, open Novell Remote Manager (NRM), click List Modules under the Manage Applications heading, and then click the NLM name. • Loaded by default.

Name	Description	Purpose
nldap.nlm	LDAP Agent for Novell eDirectory 8.7 SP1	• LDAP Services for eDirectory. Many Novell applications such as eGuide, iChain®, iLogin, and GroupWise® use LDAP as the communications protocol for eDirectory. • If unloaded, the LDAP server is not available. Thus, any application wishing to use LDAP to communicate with eDirectory can not communicate with the server. • Dependent on ds.nlm and sometimes ntlsl.nlm. • Loaded by default in autoexec.ncf.
nldapi.nlm	nldapi	• In prior versions of the directory and LDAP, this was an LDAP installation and configuration utility. If you load it now, it displays a message saying it's no longer supported. • Not loaded by default.
nmlib.nlm	Novell NLM Runtime Library	• Server library (CLib) support module. • Cannot unload because there are dozens of low-level components (such as TCPIP, PKI, and NWregistry) that use it. • Dozens of dependencies. To see the full list of everything currently using any given NLM program, open Novell Remote Manager (NRM), click List Modules under the Manage Applications heading, and then click the NLM name. • Loaded by default.
nls.nlm	NLS License Service Provider Loader	• Autoloads nls lsp.nlm for any legacy applications that originally autoloaded nls.nlm. • Can be unloaded. • Dependent on CLib and nls lsp.nlm. • Not loaded by default.
nlsadapt.nlm	NLS and Metering Adapter for iManager Plug-in	• Backend component for responding to license management and software usage requests made by the iManager licensing snap-in. • If unloaded, license management and software usage requests made by the iManager licensing snap-in fail. • Dependent on clib.nlm, nlsapi.nlm, and nlsrup.nlm. • Loaded by default.

Name	Description	Purpose
nlsapi.nlm	NLSAPI	• Licensing client library for NLM applications. • If unloaded, it is reloaded by polimgr.nlm. • Dependent on clib.nlm. • Loaded by default.
nlsbtrv.nlm	NLS Btrieve Database Engine	• Btrieve database engine used for NLS if set as preferred licensing database engine. • Cannot be unloaded if loaded by nlsfsp.nlm. • Dependent on CLib and Pervasive/Btrieve. • Not loaded by default.
nlsflaim.nlm	NLS FLAIM Database Engine	• FLAIM (Novell) database engine used for NLS if set as preferred licensing database engine. • Cannot be unloaded if loaded by nlsfsp.nlm. • Dependent on CLib. • Loaded by nlsfsp.nlm.
nlsi.nlm	NLS Install Library	• License system installation and configuration component used by install.nlm when installing and configuring a server. • Automatically loaded during installation and unloaded after installation completes. • Dependent on clib.nlm and ds.nlm. • Not loaded by default.
nlsrup.nlm	NLS - Usage Metering	• Software usage metering middleware (server-to-server communications and database interface). • Not easily unloaded without unloading a sequence of other NLM programs. If unloaded, the software usage metering aspect of iManager is inaccurate and incomplete. • Dependent on libc.nlm, nlsmeter.nlm, and winsock.nlm. • Loaded by default.
nlsfsp.nlm	NLS - License Service Provider	• License server • If unloaded, it is reloaded by polimgr.nlm. • Dependent on clib.nlm and ds.nlm. • Loaded by default.

Name	Description	Purpose
nlsmeter.nlm	Software Usage Metering Database	• Software usage metering database manager • Not easily unloaded, but if unloaded it is automatically reloaded. • Dependent on clib.nlm and the Pervasive database engine. • Autoloaded by connaud.nlm and nlsrup.nlm.
nlsauto.nlm	autoexec.ncf/netinfo.cfg Update Utility MOAB_NDK	• Dependent on after311.nlm. • Not loaded by default.
nlsstrap.nlm	NetWare License Server Trap	• SNMP traps for NLS. • If unloaded, specified NLS traps are not processed. • Dependent on CLib. • Loaded by nslslp.nlm.
nlzs.nlm	Novell - Stac LZS Compression Driver	• If unloaded, PPP subsystem does not function. • Not loaded by default.
nmas.nlm	Novell Modular Authentication Service	• NMAS server • Needed for NMAS and universal password. • Dependent on ds.nlm, gasm.nlm, and masv.nlm. • Loaded by default.
nmasgpxy.nlm	NMAS Generic Proxy	• Allows proxies to invoke NMAS. • If unloaded, SAS does not run. • Dependent on nmas.nlm. • Loaded by default.
nmasinst.nlm	NMAS Install	• Utility to configure NMAS and NMAS LSMs. • Dependent on nmas.nlm, nici.nlm, ds.nlm, and spmdclnt.nlm. • Not loaded by default.
nmasldap.nlm	NMAS LDAP Extension	• NMAS for LDAP support. • If unloaded, no LDAP support for NMAS. • Dependent on ldap.nlm, ds.nlm, and nmas.nlm. • Loaded by default.
nmasmon.nlm	NMAS Monitor	• Utility to monitor NMAS activity. • Dependent on nmas.nlm. • Not loaded by default.
normaliz.nlm	Perl 5.8.0 - Normalize Extension XS_version: 0.17	

Name	Description	Purpose
npkiapi.nlm	Public Key Infrastructure Services	- Provides current client API interface to the PKI server. - If unloaded, cannot perform client API access to PKI server, such as through the iManager PKI plug-in or through applications written to npkiapi.nlm. - Dependent on nici.nlm, ldapsdk.nlm, sal.nlm, and dsloader.nlm. - Loaded by default.
npkijni.nlm	Public Key Infrastructure Services	- Java Native Interface to npkiapi.nlm. - If unloaded, cannot perform iManager PKI operations through the PKI plug-in. - Dependent on npkiapi.nlm and its dependencies. - Not loaded by default.
npkit.nlm	Public Key Infrastructure Services	- Provides client API interfaces for certificate validation, PKCS #12 processing, and X.509 certificate parsing. - If unloaded, cannot perform iManager PKI operations through the PKI plug-in and cannot run applications written directly to the npkit interface. - Dependent on nici.nlm, ldapsdk.nlm, and sal.nlm. - Loaded by default.
npkitjni.nlm	Public Key Infrastructure Services	- Java Native Interface to npkit.nlm. - If unloaded, cannot perform iManager PKI operations through the PKI plug-in. - Dependent on npkit.nlm and its dependencies. - Not loaded by default.
nprinter.nlm	Network Printer Driver	- Allows printers to connect to local ports on the server. - If unloaded, service not available. - Dependent on pserver.nlm. - Not loaded by default.
nptd9598.nlm	Network Printer Driver for NEC PC98	
nptdrv95.nlm	Network Printer Driver	
nptr95.nlm	Network Printer Driver Control	

Name	Description	Purpose
nrggw.nlm	NRG NDPS Gateway	- Enables printing to NRG printers. An alternative to the Novell gateway. Provides custom configuration and control for NRG printers. - Unloading the gateway disables print support for the printers that are configured to use that gateway. - Gateways depend on eDirectory, the Web server for the iManager management consoles, and NDPS, which includes dplsv386.nlm, broker.nlm, ndpsm.nlm, and their dependencies. - Gateways are not loaded by default.
nrobot.nlm	NRobot - 1.1	
ns311.nlm	NControl NLM Slave 311 Specific Library	
nsadmin.nlm	Novell NetStorage Administrator	
nscm.nlm	Novell XTier Security Context Manager	
nslookup.nlm	NSLookup for NetWare	- Primary use is in diagnosing DNS configuration issues. - Dependent on WinSock. - Not loaded by default. - For more information, see “Nslookup” in the <i>Utilities Reference for OES</i>.
nsn2ucs.nlm	NSN - UCS Interface	
nsninit.nlm	NSN - Runtime	- Creates NSN Script execution environment. - Loaded by default.
nsns.nlm	Novell XTier Simple Name Service	
nsp.nlm	NSN - Novell ScriptPages Standard Objects	
nspdhcp.nlm	NetWare WinSock 2.0 Nspdhcp.nlm Name Service Providers	- Provides naming services to DHCP. - If unloaded, unable to access DHCP information via WinSock. - Dependent on ws2_32.nlm. and dhcpc1nt.nlm. - Not loaded by default.

Name	Description	Purpose
nspdns.nlm	NetWare WinSock 2.0 Nspdns.nlm Name Service Providers	- Provides DNS name resolution through WinSock. - If unloaded, unable to access DNS naming through WinSock. - Dependent on ws2_32.nlm and tcpip.nlm. - Loaded by default if server is configured for TCP/IP.
nspnds.nlm	NetWare WinSock 2.0 Nspnds.nlm Name Service Provider	- Provides NDS name resolution through WinSock. - If unloaded, unable to access NDS naming through WinSock (essentially none). - Dependent on ws2_32.nlm and ds.nlm. - Loaded by default.
nspsap.nlm	NetWare WinSock 2.0 NLM Nspsap.nlm Name Service Provider	- Provides SAP name resolution through WinSock. - If unloaded, unable to access SAP naming through WinSock. - Dependent on ws2_32.nlm and ipxspx.nlm. - Loaded by default if IPX/SPX is configured on the server.
nspslp.nlm	NetWare WinSock 2.0 Nspslp.nlm Name Service Provider	- Provides SLP name resolution through WinSock. - If unloaded, unable to access SLP naming through WinSock. - Dependent on ws2_32.nlm and slp.nlm. - Loaded by default if the server is configured to use TCP/IP and SLP.
nss.nlm	NSS (Novell Storage Services)	- Main NSS module. - If unloaded, the file system is deactivated. Cannot unload nss.nlm on a NetWare 6.5 server. - Loaded by default. - For more information, see “NSS” in the <i>Utilities Reference for OES</i>.
nssidk.nss	NSS Pool Configuration Manager	
nssmib.nlm	NetWare 5.x/6.x NSS MIB	
nssmgr.nlm	Novell NetStorage Administrator	
nssmu.nlm	NSS Storage Management	- Disk management utility. - Loaded by default during installation. Not loaded on normal boot. - For more information, see “NSSMU”

Name	Description	Purpose
nsspr.nlm	NSS Protect (Build 3 MP)	• Password protection used by NSS iManager snap-ins. • Autoloaded with iManager. • Not loaded by default.
nsswin.nlm	NSS ASCII Window API Library (Build 186 MP)	• Unloads only when NSS unloads. • Autoloads with NSS. • Loaded by default.
nterm.nlm	Java - GUI Server Console Native Support Build 030227	
ntermj.nlm	Java - GUI Server Console JNI Support Build 030227	
ntfysrvr.nlm	NDPS Notification Server	• NDPS event notification service engine. • If unloaded, event notification reverts to other event notification services that are loaded on the network. These are used by ndpsm.nlm to report events as configured by the administrator. • Loads all *.enm (Event Notification Method) NLM programs that are configured.
ntls.nlm	Novell TLS Library	• SSL stack based on OpenSSL. • If unloaded, there is no SSL services for consuming applications, which is only LDAP in NetWare 6.5. • Dependent on nldap.nlm, nici.nlm, and npkit.nlm. • Loaded by default.
ntpdate.nlm	NTPv3 Time/Date Set Utility	• Synchronizes time of the time provider and come close enough for xntpd.nlm to run smoothly. • Used before loading xntpd.nlm. • Not loaded by default, but the server can be configured to load this by default.
ntpq.nlm	NTPv3 Query Utility	• Queries NTP parameters and progress. • Used when xntpd.nlm is loaded and running on the host machine. Also used in debugging. • Not loaded by default.
ntptrace.nlm	NTPv3 Trace Utility	• Queries the essential parameters of all the time providers up to the root. • Used when xntpd.nlm is loaded. Also used in debugging. • Not loaded by default.

Name	Description	Purpose
nut.nlm	NetWare NLM Utility User Interface	- Provides APIs for c-worthy screens. - Many NLM programs are dependent on it. - Loaded by default.
nvaltdb.nlm	NMVT Alerts Database Install	- Install utility - Not loaded by default
nwaif103.nlm	nwaif103.nlm 7.94 (Build 251)	Btrieve NLM program.
nwbsrvcm.nlm	nwbsrvcm.nlm 7.90.000 (Build 230)	- Btrieve communication manager. - If unloaded, Btrieve does not function. - Dependent on btcpcnm.nlm and bspxcnm.nlm. - Loaded by default.
nwccss.nlm	Character Code Set Support	Not loaded by default.
nwconfig.nlm	NetWare Configuration Utility	- Use at the server console to modify your NetWare server's configuration, perform server management operations, and install additional products. - Dependent on icmd.nlm. - Not loaded by default. - For more information, see "NWCONFIG" in the <i>Utilities Reference for OES</i>.
nwenc103.nlm	nwenc103.nlm 7.90.000 (Text Encoding Conversion Library)	Btrieve NLM program.
nwftpd.nlm	NetWare FTP Server	- If unloaded, FTP services are not available. - Dependent on netdb.nlm, ftpif.nlm, calnlm32.nlm, clxnlm32.nlm, and netnlm32.nlm. - Loaded by default if selected during installation.
nwftpd6.nlm	FTP Server	- NetWare FTP Server enabled over IPv6 - Not loaded by default
nwi.nlm	NetWare Install (NWI) Module	- Used during installation. - All nwi*.nlm programs are dependent on it. - Not loaded by default.
nwiap.nlm	NetWare Install Application Object (NWIAP) Module	- Install utility for NAL application object creator. - Used during installation. - Dependent on nwi.nlm. - Not loaded by default.

Name	Description	Purpose
nwicf.nlm	NetWare Install Configuration File (NWICF) Module	• Install utility for configuration file parser and editor. • Used during install. • Dependent on nwi.nlm. • Not loaded by default.
nwicl.nlm	NWI CLib Context	• Install utility for CLib context giver. • Used during installation. • Dependent on nwi.nlm. • Not loaded by default.
nwidk.nlm	CDWare Volume Module	• Installation utility for media management. • Used during installation. • Dependent on nwi.nlm. • Not loaded by default.
nwids.nlm	NetWare Install Directory Services (NWIDS) Module	• Installation utility for directory services. • Used during installation. • Dependent on nwi.nlm. • Not loaded by default.
nwihw.nlm	NetWare Install Hardware (NWIHW) Module	• Installation utility for hardware detection. • Used during installation. • Dependent on nwi.nlm. • Not loaded by default.
nwipr.nlm	NetWare Install Protocol (NWIPR) Module	• Installation utility for protocol configuration. • Used during installation. • Dependent on nwi.nlm. • Not loaded by default.
nwiprv.nlm	Java Native Method Library for nwipr.nlm	
nwirf.nlm	NetWare Install Response File (NWIRF) Module	• Installation utility for response file parser and editor. • Used during installation. • Dependent on nwi.nlm. • Not loaded by default.
nwitz.nlm	NetWare Install Time Zone (Nwitz) Module	• Installation utility for time zone parser and editor. • Used during installation. • Dependent on nwi.nlm. • Not loaded by default.

Name	Description	Purpose
nwiws.nlm	NetWare Install WinSock (NWIWS) Module	• Installation utility for WinSock. • Used during installation. • Dependent on nwi.nlm. • Not loaded by default.
nwiwsjv.nlm	Java Native Method Library for Nwiws.nlm	
nwkcfig.nlm	NetWare Kernel Config NLM program	• Server load file template. Determines what NLM program is loaded and in what order during server boot up. • Cannot be unloaded. • Not dependent on other NLM programs, but NetWare does not run without this NLM program. • Loaded by default.
nwmkde.nlm	nwmkde.nlm 7.94.251.000	• Btrieve database engine. • If unloaded, Btrieve does not function. • Dependent on btrieve.nlm and btcpcom.nlm. • Loaded by default.
nwpa.nlm	NetWare 6 NetWare Peripheral Architecture NLM program	• Driver interface for all the .ham and .cdm storage drivers. • If unloaded, you lose all access to all storage devices (hard disks) that are supported with .ham drivers. Currently, this is all devices except USB devices. • Dependent on mm.nlm, neb.nlm, and nbi.nlm. All .cdm and .ham drivers depend on this NLM program. • Loaded by default.
nwpa load.nlm	NetWare 5 NWPA Load Utility	• Only purpose is that .cdm and .ham drivers are dependent upon it being loaded. • If unloaded, the drivers that depend on it being loaded do not load. • Not dependent on any modules, but all .cdm and .hdm drivers are dependent on it. • Loaded by default.
nwping.nlm	NetWare Ping Command	• Network connectivity verification utility. • No consequences if unloaded. • Not loaded by default.
nwpsrv.nlm	NetWare 4.15 Print Services Library - NWPSRV	• Provides the print services API library for NetWare for Macintosh software. • Not loaded by default.

Name	Description	Purpose
nwr sa .nlm	NetWare Remote Server Access NLM program	- Allows for basic file system access via Novell Remote Manager (NRM) on NetWare 4 servers. - If you unload it, NRM is not be able to access the file system on these machines. - This NLM program is not useful if portal .nlm and httpstk .nlm are not loaded. The nwr sa .nlm autoloads portal .nlm and httpstk .nlm if they aren't loaded. The nwr sa .nlm is not loaded by default.
nw sdkerr .nlm	NSN - NetWare SDK Error Message Manager	- Contains the error messages for the NetWare SDK error codes. - Not loaded by default. Loaded whenever certain UCX components such as UCX:NWdir are used in scripts.
nw sec .nlm	Scripting - Security Library	- Security library for scripting products. - Loaded by default.
nw snut .nlm	NetWare NLM Utility User Interface	- Provides APIs for c-worthy screens. - Many NLM programs are dependent on it. - Loaded by default.
nw term .nlm	Secure Shell/Telnet Terminal Emulation	- VT100 and ANSI terminal emulation. - Can't be unload until dependent NLM programs are unloaded. - Dependent on libc .nlm. - Not loaded by default.
nw trace .nlm	Traceroute: TCPIP Diagnosis Command	- Packet path/route to destination finding utility. - No consequences if unloaded. - Not loaded by default.
nw trap .nlm	NetWare 5.x/6.x Trap Monitor	- SNMP agent that maps NetWare alerts to traps. - If unloaded, SNMP traps are not mapped. - Dependent on c lib .nlm. - Not loaded by default.
nw ucinit .nlm	nw ucinit .nlm 1.5 (Build 230)	- Part of the Btrieve user count initialization utility. - Not loaded by default.
nw ucmgr .nlm	nw ucmgr .nlm 1.5 (Build 230)	- Btrieve license manager. - If unloaded, Btrieve does not function. - Dependent on nwmkde .nlm. - Loaded by default.

Name	Description	Purpose
nwutil.nlm	Novell Utility Library NLM program	- Provides memory management and fast utility functions to NILE and WinSock. - Cannot be unloaded. - Loaded by default.
nwxlt101.nlm	Nwxlt101.nlm	

2.16 O

Name	Description	Purpose
odbc.nlm	Perl 5.8.0 - ODBC Extension XS_version: 0.28	
odineb.nlm	Novell ODI to Novell Event Bus Interface Module	- Provides a mechanism for NLM programs and drivers to register as a producer or consumer of LAN/ODI events within NetWare. - Before unloading, all NLM programs that registered with odineb.nlm must be unloaded first.
opcode.nlm	Perl 5.8.0 - Opcode Extension XS_version: 1.03	
os10.nlm	mod_perl-2.0 Extension (OS) XS_version: 0.01	
owcimomd.nlm	OpenWBEM CIMOM Daemon with Novell providers	- Provides the OpenWBEM Comom Information Model Object Manager (CIMOM) and providers for cross-platform server monitoring and management. For more information, see “Setting Up OpenWBEM” in the <i>OpenWBEM Services Administration Guide for OES</i>. - Loaded by default

2.17 P

Name	Description	Purpose
pack_isam.nlm	MySQL ISAM Table Pack Tool	
parseior.nlm	jBroker ORB Parse IOR Utility	
parser.nlm	Perl 5.8.0 - Parser Extension XS_version: 3.26	Found in \perl\lib\auto\HTML\Parser

Name	Description	Purpose
parser.nlm	NetWare MPR Command Parser	- Parses the load command line for WAN drivers. - Used by inetcfg.nlm, snmp.nlm, and related NLM programs.
partapi.nlm	Partition APIs for NetWare 6.5	- Module for partition API support. - If the server is running cdrom.nlm or nss.nlm, partapi.nlm automatically loads and does not load again.
pcisinfo.nlm	PCI Slot Information for Portal	- Provides PCI and hot-plug information to Novell Remote Manager (optional). - If you unload it, statistics for PCI and hot-plug components do not show up in Novell Remote Manager. - This NLM program autoloads ncm.nlm and odineb.nlm. This NLM is not useful without portal.nlm and httpstk.nlm. - Not loaded by default.
pcluster.nlm	Novell Cluster Portal Interface (Build Number 0212203)	- Provides the ability to manage clustering services from Novell Remote Manager (NRM). - Use ldncs.ncf to load clustering NLM programs. Use uldncs.ncf files to unload clustering NLM programs. If you unload cluster NLM programs on a server that was configured to be part of a cluster, the node leaves the cluster. All cluster resources are failed over to other nodes in the cluster, and it is not possible thereafter to activate any sharable drives for clustering pools on that server. - Dependent on clstrlib.nlm, gipc.nlm, sbd.nlm, vll.nlm, vipx.nlm, crm.nlm, and cma.nlm. - Not loaded by default.
peldr.nlm	Portable Executable Loader	DLL loader for NetWare 4.11.
perl.nlm	Perl 5.8.0 - Script Interpreter for NetWare	- Dependent on netdb.nlm and nwsec.nlm. - Loaded by default.
perl2ucs.nlm	Perl 5.8.0 - Perl2UCS Extension	
perror.nlm	MySQL Error Code Description Tool	

Name	Description	Purpose
pfplib.nlm	NDPS PerfectFit Printing Library	• With pfnpnd.nlm, acts as a library for using npd files that contain general information on a large number of older printers. Used by Novell's older gateway implementation (ndpds.nlm and ph.nlm) and some older third-party gateways. Used by part of the registry server (rmanserv.nlm) in some cases. Usage is being phased out. • Dependent on the CLib NLM programs. • Loaded as a dependency when ndpds.nlm is loaded. Depended on by and loaded with rmansrvr.nlm.
pfnpnd.nlm	NDPS PerfectFit Printing Interface	• With pfplib.nlm, acts as a library for using npd files that contain general information on a large number of older printers. Used by Novell's older gateway implementation (ndpds.nlm and ph.nlm) and some older third-party gateways. Used by part of the registry server (rmanserv.nlm) in some cases. Usage is being phased out. • Pfnpnd.nlm is dependent on pfplib.nlm, dplsv386.nlm, and the CLib NLM programs. • Loaded as a dependency when ndpds.nlm is loaded.
pftdlbs.nlm	Java Class Libraries for NetWare 4.x Loader Aide	
pgm.nlm	Novell PGM Module	• Pragmatic General Multicast. • Not loaded by default.

Name	Description	Purpose
ph.nlm	NDPS Port Handler for NetWare Servers	- An iPrint gateway. Functions with ph.nlm to provide communication between iPrint and the actual printer for job data and printer status and control. This is an older gateway that provides little or no status and control, but is useful where older protocols are required to communicate with the printer. Protocols supported for job transmission include server-connected parallel and serial ports and Remote Printer (RP) protocol on IPX. LPR on IP is also supported, but is better supported by the ndpsgw.nlm gateway. - Unloaded automatically when the print manager shuts down the last Printer Agent for which they are operating. For test purposes, ph.nlm can also be unloaded manually on a per Printer Agent basis, and either can be unloaded as a whole. Doing so changes the status on any affected Printer Agent to "Not Bound [to a Gateway]". Unloading ph.nlm causes an unload of the ndpds.nlm. - Ph.nlm is dependant on dsapi.nlm, clib.nlm, winsock2 and Berkeley sockets, the OS, and others. Its primary value is through communication with the print manager via the ndpds.nlm. - Loaded by the print manager when the manager starts a Printer Agent that is configured to use these particular NLM programs for its gateway. They can also be loaded manually for test purposes and to get help and current configuration information, but only if the print manager is already loaded. And ph.nlm must be loaded before the ndpds.nlm can load successfully.
php_ldap.nlm	PHP 4.2.3 - LDAP Extension	
php_xml.nlm	PHP 4.2.3 - XML Extension	
phplib.nlm	PHP 4.2.3 - Script Interpreter and Library	
phpmysql.nlm	PHP 4.2.3 - MySQL Extension	

Name	Description	Purpose
pim.nlm	Protocol Independent Multicast Routing DM Production_13Dec2001	- Dense Mode module for protocol independent multicast routing. - Not loaded by default.
ping.nlm	TCPIP Ping Utility 24 Jan2000	- Network connectivity utility (TUI). - Not loaded by default. - For more information, see “PING” in the <i>Utilities Reference for OES</i>.
ping6.nlm	Novell IPv6 PING6 Utility IPV6	
pinstall.nlm	NIS PInstall Screen	
pkernel.nlm	NetWare NFS - Portmapper and RPC Module	- Dependent on rpcbstub.nlm and dsapi.nlm. - Loaded by default.
pki.nlm	Novell Certificate Server	- Provides X.509 Public Key Infrastructure (PKI) services for the server. - If it is unloaded, you cannot mint X.509 certificates, view certificates, or manage certificates. - Dependent on nicipi.nlm, ldapsdk.nlm, sal.nlm, and dsloader.nlm. - Loaded by default.
pkiaapi.nlm	Public Key Infrastructure Services	- Provides old client API interface to the PKI server. - If it is unloaded, you cannot perform client API access to PKI server, such as through the ConsoleOne PKI snap-in or through applications written to pkiaapi.nlm. - Dependent on nicipi.nlm, clib.nlm, dsapi.nlm, calnlm32.nlm, clxnlm32.nlm, locnlm32.nlm, nit.nlm, nlmlib.nlm, requestr.nlm, and threads.nlm. - Loaded by default.
pkijni.nlm	Public Key Infrastructure Services Install	
pkisinst.nlm	Public Key Infrastructure Services Install	
plstnsrv.nlm	Novell NDPS Programmatic Event Notification Module	- Programmatic notification listener available on NetWare. - Available to any NLM program requiring NDPS programmatic notification.

Name	Description	Purpose
pmportal.nlm	NetWare License Information Portal	• Novell Remote Manager (NRM) snap-in that provides diagnostic functions for NetWare licensing components. • If unloaded, it is automatically reloaded. • Dependent on httpstk.nlm and portal.nlm. • Loaded by default.
pmysql.nlm	Perl 5.8.0 - MySQL Extension XS_version: 2.1017	
polimgr.nlm	Policy Manager Installer	• NetWare license policy manager. • If unloaded, users can not log in to the server. • Dependent on connmgr.nlm, other OS resources, and eDirectory. • Loads automatically when the server is brought up.
pool9.nlm	Mod_Pperl-2.0 Extension (Pool) XS_version: 0.01	
portal.nlm	Novell Remote Manager (NRM) NLM program	• Along with httpstk.nlm, this is what enables the NRM functionality. • If unloaded, there is no remote management capability. NRM is not accessible. • Primarily dependent on httpstk.nlm. Other plug-in modules provide expanded capability. • Loaded by default.
posix.nlm	Perl 5.8.0 - POSIX Extension XS_version: 1.05	
pppcfg.nlm	PPP Configuration Console	• PPP routing configuration snap-in. • Loaded by inetcfg.nlm. • Not loaded by default.
pppcon.nlm	PPP Monitoring Console	• Management console to access PPP interface configuration and statistical information. • Dependent on tui.nlm, nwsnut.nlm, and mathlibc.nlm. • Not loaded by default.
ppptrace.nlm	PPP Trace Utility	• Console utility to view PPP packet traces. • Dependent on wsm.nlm and lic_api.nlm. • Not loaded by default.

Name	Description	Purpose
ppptsm.nlm	PPP Topology Specific Module (TSM)	- Implements the PPP protocol subsystem that is present between the CSL and the WAN drivers. - Dependent on dmgmt.nlm, spoofer.nlm, nlzs.nlm, cmpsuper.nlm, and pred.nlm. - Not loaded by default.
pred.nlm	Predictor Compression Driver	- Important for the PPP subsystem to work. - Dependent on cmpsuper.nlm. - Not loaded by default.
proces26.nlm	Mod_Pperl-2.0 Extension (Process) XS_version: 0.01	
prodsync.nlm	Products.dat/Registry Synchronization	- Installation utility for products.dat/registry synchronization. - Not loaded by default.
proxy.nlm	Apache 2.0.44 Proxy Module	
proxycon.nlm	Apache 2.0.44 Proxy Connection Sub-Module	
proxyftp.nlm	Apache 2.0.44 Proxy FTP Sub-Module	
proxyhttp.nlm	Apache 2.0.44 Proxy HTTP Sub-Module	
ps2.nlm	Java - PS/2 Mouse Port Driver (Build 030227)	
pserver.nlm	NetWare Print Server PTF 1.12 (Build 000830)	- Services print queues. - If unloaded, service not available. - Not loaded by default.
psregsvr.nlm	PCOM Server Registration Utility	
psvcs.nlm	Portability Services	- If unloaded, applications relying on it cannot function. - Many NLM programs are dependent on it. - Not loaded by default.
ptrace.nlm	P-Class Trace Console	- Used to capture trace data for EiconCard* P-Class adapters (P62 and P92) when using the SDLC protocol. This module is included with the Eicon P-Class Drivers for IntranetWare. - Not loaded by default.

2.18 Q

Name	Description	Purpose
qfind215.nlm	QuickFinder Engine 2.15.22(v)	
qman.nlm	SMS - Backup Queue Manager	- Facilitates multiple job scheduling and manages backup queue. - No consequences if unloaded, unless a job is scheduled. - Dependent on sbcon.nlm. The user interface can be loaded after you load the Q Manager. - Loaded by default with sbcon.nlm.
queue.nlm	NetWare Queue Services NLM program	- Servinst.nlm, ds.nlm, and ncp.nlm are dependent on it. - Loaded by default.

2.19 R

Name	Description	Purpose
rconag6.nlm	RConsole Agent for NetWare	- Remote access to NetWare servers. - Dependent on sas.nlm and tli.nlm. - Not loaded by default. - For more information, see “RCONAG6” in the <i>Utilities Reference for OES</i>.
rconprxy.nlm	Novell RConsole Proxy v6.00.00	- Proxy module for rconag6.nlm. - Dependent on clib.nlm and tli.nlm. - Not loaded by default. - For more information, see “RCONPRXY” in the <i>Utilities Reference for OES</i>.
rdbhost.nlm	Remote Debug Console Host	- Remote debug host for rdb.exe and requires DBNET and WinSock. - If unloaded, cannot use remote debugging interface. - Works with imgghost.nlm. - Not loaded by default.
realmtool.nlm	jBroker ORB Realm Tool	
regjni.nlm	Registry Wrapper API	
regserv.nlm	jBroker ORB Register Server Utility	

Name	Description	Purpose
regsvr.nlm	NDPS Service Registry Service	- At least one SRS must be loaded per network for NDPS Public Access Printers, ENSes, and RMSes to be discoverable. ndpsm.nlm is capable of discovering the ENS and RMS on the same server without an SRS being loaded anywhere. - Dependent on dsapi.nlm, clib.nlm, dprpcnlm.nlm, and calnlm32.nlm. - Not loaded by default.
regsvr.nlm	Novell NetStorage Administrator	
remote.nlm	NetWare Remote Console	- IP/IPX remote control. - Some NLM programs are dependent on it. - Not loaded by default. Autoload by rspx.nlm.
repaircr.nlm	eDirectory Management Tool Box DSRepair eMTool 8.7	- Provides core functionality to repair eDirectory. - Cannot be unloaded individually. - Dependent on embox.nlm and related NLM programs. - Loaded by default.
repairtl.nlm	eDirectory Management Tool Box DSRepair eMTool 8.7	- Provides interfaces into repaircr.nlm. - Cannot be unloaded individually. - Dependent on embox.nlm and related NLM programs. - Loaded by default.
replace.nlm	MySQL Text Replacement Tool	
reques23.nlm	Mod_Perl-2.0 Extension (RequestUtil) XS_version: 0.01	
reques24.nlm	Mod_Perl-2.0 Extension (RequestRec) XS_version: 0.01	
reques25.nlm	Mod_Perl-2.0 Extension (RequestIO) XS_version: 0.01	

Name	Description	Purpose
requestr.nlm	Novell NCP Requestor for NLM programs	• Server library (CLib) support module. • Cannot unload because there are dozens of low-level components (such as TCPIP, PKI, and NWregistry) that use it. • Dozens of dependencies. To see the full list of everything currently using any given NLM program, open Novell Remote Manager (NRM), click List Modules under the Manage Applications heading, and then click the NLM name. • Loaded by default.
resolv.nlm	Novell DNS Resolver	
resolve_stack_dump.nlm	n/a	
resolveip.nlm	MySQL IP/Hostname Resolve Tool	
respon22.nlm	Mod_Peri-2.0 Extension (Response) XS_version: 0.01	
rewrite.nlm	Apache 2.0.44 Rewrite Module	
ricohgw.nlm	Ricoh NDPS Gateway	• Enables printing to Ricoh printers. An alternative to the Novell gateway. Provides custom configuration and control for Ricoh printers. • Unloading the gateway disables print support for the printers that are configured to use that gateway. • Gateways depend on eDirectory, the Web server for the iManager management consoles, and NDPS, which includes dp1sv386.nlm, broker.nlm, ndpsm.nlm, and their dependencies. • Gateways are not loaded by default.
rmannpd.nlm	NDPS Resource Manager - NPD Creation Library	• NPD file generation library. • Only needed when new NPD files are generated. After NPDs are created, it can be unloaded. • Dependent on pfplib.nlm and clib.nlm. • Not loaded by default. Loaded on demand by rmansrvr.nlm.

Name	Description	Purpose
rmansrvr.nlm	NDPS Resource Manager	• NDPS Resource Management Service • At least one RMS must be loaded per network for access to banners, printer drivers, etc. • Dependent on dsapi.nlm, clib.nlm, dprpcnlm.nlm, locnlm32.nlm, unicode.nlm, clxnlm32.nlm, calnlm32.nlm, dplsv386.nlm, nipped.nlm and nippzlib.nlm. Optionally loads rmannpd.nlm. • Not loaded by default.
rmi.nlm	Java rmi (Based on 1.4.1_01)	
rmi2idl.nlm	jBroker ORB RMI to IDL Compiler	
rmi2iiop.nlm	jBroker ORB RMI to IIOP Compiler	
rollcall.nlm	RollCall NLM program (101, API 1.0)	• Registration point for controlling processes on the server. WanMan implements the policies and ds.nlm registers with rollcall.nlm. • Cannot be unloaded. Loaded and registered as a dependent module by ds.nlm. • Loaded when ds.nlm is loaded.
rotlogs.nlm	Apache 2.0.44 Log Rotation Utility for NetWare	
routecon.nlm	TCPIP Route Configuration Command	• Manually manipulates the routing tables. • No consequences if unloaded. • Dependent on conman.nlm. • Not loaded by default.
rpcbstub.nlm	NetWare NFS - Portmapper and Rpcbind Coexistence Support Module	• Loaded by default.
rspx.nlm	NetWare Remote Console SPX Driver	• SPX driver for remote.nlm. • Dependent on remote.nlm. • Not loaded by default. When loaded, autoloads remote.nlm.
rss.nlm	eDirectory Management Tool Box Remote Subscription Service 8.7	• Part of eMBox. • eMBox is dependent on it. • Dependent on eDirectory 8.7 or later. • Loads with eMBox.

Name	Description	Purpose
rt dm . n l m	NetWare Real Time Data Migration NLM program	- Real-Time Data Migration support module. - If unloaded, third-party data migration software utilities (CaminoSoft and others) would not function correctly. - No dependencies on other NLM programs, but third-party utilities might depend on it for their data migration capability. - Not loaded by default.

2.20 S

Name	Description	Purpose
sa l . n l m	Novell System Abstraction Layer 2.2.0	- Library providing cross-platform support for primitive functions. - If all dependent NLM programs are unloaded first, it can be unloaded. - Dependent on libc . n l m. - Not loaded by default. It is autoloaded by ds . n l m and is used by the directory and other directory utilities, such as n l d a p . n l m and embox . n l m.
sa s . n l m	Secure Authentication Services	- Old SSL stack. Not used in NetWare 6.5. - Dependent on n i c i . n l m. - Not loaded by default.
sa s l . n l m	Simple Authentication and Security Layer	- Provides Simple Authentication Security Layer (SASL) to LDAP. - If unloaded, no SASL functionality. - Dependent on l d a p . n l m, n m a s . n l m, and ds . n l m. - Loaded by default.
sa vi ngw . n l m	Savin* NDPS Gateway	- Enables printing to Savin printers. An alternative to the Novell gateway. Provides custom configuration and control for Savin printers. - Unloading the gateway disables print support for the printers that are configured to use that gateway. - Gateways depend on eDirectory, the Web server for the iManager management consoles, and NDPS, which includes dp l s v 3 8 6 . n l m, broker . n l m, ndpsm . n l m, and their dependencies. - Gateways are not loaded by default.

Name	Description	Purpose
sbcon.nlm	SMS - Backup Management Console	• The user interface through which you can set the parameters and options for a backup or restore operation. SBCON queues the job request and leaves the rest to the engine. • Unload through interface only. • Dependent on smdr.nlm. • Not loaded by default.
sbd.nlm	Cluster Split Brain Detector (Build Number 02122003)	• Verifies that split-brain conditions are detected and dealt with properly so that no data corruption can occur. The SBD relies on the clustered node connection to the shared disks as an alternate communication channel. • Use ldncs.ncf to load clustering NLM programs. Use uldncs.ncf files to unload clustering NLM programs. If you unload cluster NLM programs on a server that was configured to be part of a cluster, the node leaves the cluster. All cluster resources are failed over to other nodes in the cluster, and it is not possible thereafter to activate any sharable drives for clustering pools on that server. • Dependent on clstrlib.nlm. • Only loaded if you installed cluster services on the server.
sbdlib.nlm	Cluster Split Brain Detector Library (Build Number 02122003)	• Verifies that split-brain conditions are detected and dealt with properly so that no data corruption can occur. The SBD relies on the clustered node connection to the shared disks as an alternate communication channel. • Use ldncs.ncf to load clustering NLM programs. Use uldncs.ncf files to unload clustering NLM programs. If you unload cluster NLM programs on a server that was configured to be part of a cluster, the node leaves the cluster. All cluster resources are failed over to other nodes in the cluster, and it is not possible thereafter to activate any sharable drives for clustering pools on that server. • Dependent on clstrlib.nlm. • Only loaded if you installed cluster services on the server.
scan.nlm	ZLSS Volume Scanner (Build 344 MP)	• Utility used to retrieve volume information in cases of error conditions. • Needs to match dates with zlss.nss. • Not loaded by default.

Name	Description	Purpose
schemacr.nlm	eDirectory Management Tool Box Schema eMTool 8.7	- Performs all of the schema operations. - Schematl.nlm must be unloaded before schemacr.nlm can be unloaded. Emboxmgr.nlm must be unloaded before schemacr.nlm can be unloaded. Unloading emboxmgr.nlm unloads schematl.nlm and schemacr.nlm. - Requires emboxmgr.nlm to be loaded. - Loaded by default with eMBox when ds.nlm loads.
schematl.nlm	eDirectory Management Tool Box Schema eMTool 8.7	- Connects the eMBox to schemacr.nlm. - Must be unloaded before schemacr.nlm can be unloaded. Emboxmgr.nlm must be unloaded before it can be unloaded. Unloading emboxmgr.nlm unloads schematl.nlm and schemacr.nlm. - Requires schemacr.nlm to be loaded first. - Loaded by default with eMBox when ds.nlm loads.
schhdlr.nlm	Novell Import Convert Export Utility	- Implements the SCH handler of ICE. - Loaded when ICE is executed with SCH as the source handler. Loaded on demand by ICE. - Not loaded by default.
schinst.nlm	NetWare NFS - Schema Extension Utility	- Dependent on netdb.nlm. - Loaded at installation.
schmig.nlm	NetWare NFS - RFC 2307 Schema Migration Support Utility	Loaded at installation.
scmd.nlm	Compatibility Mode Driver	- Dependent on ipxrtr.nlm and ipxspx.nlm. - Not loaded by default.
scp.nlm	OpenSSH SCP Silent (NICI)	- SCP (secure copy) client. - If unloaded, connection to ssh server are dropped. - Dependent on libc.nlm, sshlogd.nlm, nwterm.nlm, and ssh.nlm. - Not loaded by default.
scrib.nlm	CLib context provider for mod_perl and mod_nsn	Php2ucs.nlm is dependent on it.
scrsaver.nlm	NetWare 6 Screen Saver	- Dependent on nwsnut.nlm and clib.nlm. - Not loaded by default. - For more information, see “SCRSAVER” in the <i>Utilities Reference for OES</i>.

Name	Description	Purpose
sdbm_fil.nlm	Perl 5.8.0 - SDBM_File Extension XS_version: 1.03	
server.exe	Core Server Executable	• The following modules are bound into server.exe: server.nlm, pver500.nlm, and pmlodr.nlm. • They cannot be unloaded; they are part of the core server executable. • They depend on each other. • For more information, see “Server” in the Utilities Reference for OES.
server20.nlm	mod_perl-2.0 Extension (ServerUtil) XS_version: 0.01	
server21.nlm	mod_perl-2.0 Extension (Server) XS_version: 0.01	
servctl.nlm	eDirectory Management Tool Box DSService eMTool 8.7	• Provides remote capability to control eDirectory services. • If unloaded, you cannot control eDirectory services on this server via iManager. • Dependent on embox.nlm, langman.nlm, and langmani.nlm. • Loaded by default by embox.nlm.
servinst.nlm	NetWare 5.x/6.x Instrumentation	• SNMP agent that implements the NetWare server MIB. • If unloaded, the SNMP Manager does not get this information. • Dependent on clib.nlm. • Not loaded by default.
servman.nlm	NetWare 5 ServMan Shim	• NetWare 4.x utility that was replaced by Monitor. • Loads and displays message indicating you should use Monitor.
setbg.nlm	Java - X Window Set Background Frontend Build 030227	
setbgj.nlm	Java - JNI Set Background Build 030227	
setmd4.nlm	Windows Native File Access CIFS Library (Build 25 SP)	• Simple password functionality for AFPTCP and CIFS. • Used by CIFS and AFPTCP, but is not autoloaded by either. • Not loaded by default.

Name	Description	Purpose
setupnls.nlm	NLS Setup	• Server utility used for license system installation and configuration. • No consequences if unloaded. • Dependent on nwsnut.nlm, clib.nlm, and nlsi.nlm. • Not loaded by default.
setxkbmap.nlm	Java - Keyboard Mapping Utility for X (Build 030227)	
sftp.nlm	OpenSSH SFTP Client (NICI)	• SFTP (secure FTP) client. • If unloaded, the connection to SSH server is dropped. • Dependent on libc.nlm, sshlogd.nlm, nwterm.nlm, and ssh.nlm. • Not loaded by default.
sftp-svr.nlm	OpenSSH SFTP Server (NICI)	• Services sftp clients. Loaded by sshd.nlm. • If unloaded, sftp client connection being serviced is dropped. • Dependent on libc.nlm, sshlogd.nlm, and nwterm.nlm. • Not loaded by default.
sguid.nlm	NetWare 5 GUID Services	• Generates globally-unique IDs (GUIDs). • Cannot unload it. • NLM programs that depend on it include ds.nlm, connmgr.nlm, and ncp.nlm. • Loaded by default.
showlogo.nlm	Novell Logo Viewer	• NetWare splash screen (server graphic image) support module. • Loaded while server is loading, but does not remain loaded after that.
silexgw.nlm	Silex technology NDPS Gateway	• Enables printing to Silex printers. An alternative to the Novell gateway. Provides custom configuration and control for Silex printers. • Unloading the gateway disables print support for the printers that are configured to use that gateway. • Gateways depend on eDirectory, the Web server for the iManager management consoles, and NDPS, which includes dplsv386.nlm, broker.nlm, ndpsm.nlm, and their dependencies. • Gateways are not loaded by default.
silvercachemgr.nlm	Silverstream Command-line Loader for SilverCacheMgr	

Name	Description	Purpose
silvercmd.nlm	silvercmd.nlm (exteNd AppServer Tool)	
silverdebugger.nlm	silverdebugger.nlm	
silverdispatcher.nlm	silverdispatcher.nlm	
silverj2eeclient.nlm	silverj2eeclient.nlm	
silverlaunch.nlm	silverlaunch.nlm	
silverloadmgr.nlm	silverloadmgr.nlm (Load Balancer)	
silvermasterinit.nlm	silvermasterinit.nlm (Initialize Database for exteNd AppServer)	
silverserver.nlm	silverserver.nlm (exteNd AppServer)	
sjava.nlm	Java Component	Stays loaded until the Java process terminates.
slp.nlm	Service Location Protocol (RFC2165/RFC2608)	- Executes the following command-line commands: display slp addresses, display slp attributes, display slp da, display slp info, display slp services, display slp types, slp addresses, slp attributes, slp close, slp da, slp info, slp open, slp services, and slp types. - If unloaded, no service location support. - Loaded by default.
slpda.nlm	Service Location NDS Directory Agent (RFC2165/RFC2608)	- If unloaded, no service location directory agent support. - Dependent on slp.nlm. - Not loaded by default.
slptcp.nlm	Service Location TCP/UDP Interface (RFC2165/RFC2608)	- If unloaded, no service location support over IP. - Dependent on slp.nlm. - Loaded when slp.nlm is loaded and at least one bound IP address.
smc.nlm	Server Management Console (SMC)	

Name	Description	Purpose
smdr.nlm	SMS - Storage Management Data Requestor	• Communication module in the SMS architecture. Provides remote connectivity and abstracts the details of any communication between servers. Provides transparent access to SMS services in an intranet as it allows access to local or remote SMS services. Uses TCP Port Number 413. • No consequences if unloaded, if there is no active connection. • The smdr.nlm APIs are used by sbcon.nlm and other third-party applications as well. • Not loaded by default.
sme.nlm	SMS - Backup Management Engine	• Storage Management Engine (SME) is central to the SMS architecture and is the core used for backup and restore operations. SME is the controller which actually initiates and calls into functionality provided by other modules of SMS. • No consequences if unloaded, if no job is active. • Dependent on sbcon.nlm. • Loaded by default.
smsdi.nlm	SMS - Backup Device Interface	• Provides a common view of all media devices, such as tapes. Provides a device independent interface to other modules that need to interact with a media device. • Loaded automatically on the server by qman.nlm. • No consequences if unloaded, if no job is active. • Dependent on sbcon.nlm. • Loaded by default.
snmp.nlm	NetWare 4.x/5.x/6.x SNMP Service	• SNMP implementation on NetWare. • Cannot unload it. • Dependent on clib.nlm. • Loaded by default.
snmpinst.nlm	SNMPINST for Novell eDirectory 8.7.0	• eDirectory SNMP install component. • If unloaded during eDirectory installation, the installation of the SNMP component may be incomplete. • Dependent on clib.nlm, nlmlib.nlm, tcpip.nlm, threads.nlm, and dsloader.nlm. • Not loaded by default. At installation, it is loaded by the install component.

Name	Description	Purpose
snmplog.nlm	NetWare 4.x/5.x/6.x SNMP Trap Logging Service	• SNMP trap logging NLM program. • If unloaded, traps cannot be received. • Dependent on snmp.nlm and cLib.nlm. • Not loaded by default.
soaps11.nlm	XML Integration Service	• Dependent on eDirectory 8.7 or higher. eMBox is dependent on it. • Loaded by XIS. Loaded with eMBox.
sockadd8.nlm	mod_perl-2.0 Extension (SockAddr) XS_version: 0.01	
socket.nlm	Perl 5.8.0 - Socket Extension XS_version: 1.75	
socket7.nlm	mod_perl-2.0 Extension (Socket) XS_version: 0.01	
speling.nlm	Apache 2.0.44 Speling Module	
spmdcInt.nlm	Novell SPM Client for DClient	• Universal password management support. • If unloaded, no support for universal password. • Dependent on nmas.nlm and ds.nlm. • Loaded by default.
spmnwcc.nlm	Novell SPM Client for NWCC	• DSAPI version of spmdcInt.nlm. • If unloaded, no universal password support. • Dependent on nmas.nlm and ds.nlm. • Loaded by default.
spoofer.nlm	SPOOFER	• Spoofing utility. • Not loaded by default.
spxcfg.nlm	SPX Configuration Control Program	• Configure certain SPX parameters. • Not loaded by default. • For more information, see “SPXCONFIG” in the <i>Utilities Reference for OES</i>.
spxs.nlm	NetWare SPX/SPXII Protocol (PTF)	• Provide STREAMS-based SPX protocol services. • Not loaded by default. When spxs.nlm is loaded, STREAMS is autoloading. • For more information, see “SPXS” in the <i>Utilities Reference for OES</i>.
srtcfg.nlm	Source Route Configuration Console, MOAB_NDK_1	• Auto-loaded and unloaded by inetcfg.nlm. • Dependent on inetcfg.nlm. • Not loaded by default.

Name	Description	Purpose
ssh.nlm	OpenSSH Client (NICI)	• OpenSSH client program ported to NetWare that is used to log into another computer or to execute commands on another computer. • If unloaded, connection to ssh server is dropped. • Dependent on libc.nlm, sshlogd.nlm, and nwterm.nlm. • Not loaded by default.
sshd.nlm	OpenSSH Daemon (NICI)	• Listens for ssh client connections and services them. • If unloaded, all ssh client connections is dropped. No new ssh connections can be established. • Dependent on libc.nlm, sshlogd.nlm, nwterm.nlm, and lldapssl.nlm. • Not loaded by default.
sshjni.nlm	Secure Shell JNI Web Support	• Provides support for OpenSSH Manager. • Can't be unload until dependent NLM programs are unloaded. • Dependent on clib.nlm and sshlogd.nlm. • Not loaded by default.
ssh-kgen.nlm	OpenSSH Key Generation Utility (NICI)	• Generates OpenSSH key pairs. • If unloaded, the key being generated is not completed. • Dependent on libc.nlm, sshlogd.nlm, and nwterm.nlm. • Not loaded by default.
sshlogd.nlm	Secure Shell Log Daemon	• The daemon that services OpenSSH requests to log SSH activity on the NetWare server. • Can't be unloaded until dependent NLM programs are unloaded. • Dependent on clib.nlm. • Not loaded by default.
startserv.nlm	jBroker ORB Start Server Utility	
static6.nlm	Novell SR6 Module Ripple Release	
staticon.nlm	IPX Static Route Configuration Utility	• Opens a connection to a remote IPX router and configures static routes and services at each end of the connection. • Dependent on nwsnut.nlm, tui.nlm, ipxrtr.nlm, and ipxrtrnm.nlm. • Not loaded by default.

Name	Description	Purpose
status.nlm	Apache 2.0.44 Status Module	
statuslg.nlm	Report and Notification Service	• Part of eMBox. • Dependent on eDirectory 8.7 or higher. eMBox is dependent on it.
stopnfs.nlm	NetWare NFS - Unload Support Module	• Not loaded by default.
stopserv.nlm	jBroker ORB Stop Server Utility	
storable.nlm	Perl 5.8.0 - Storable Extension XS_version: 2.04	
streams.nlm	NetWare STREAMS PTF	• Sockets streams. • Cannot be unloaded. • Loaded by default.
string6.nlm	Mod_Pperl-2.0 Extension (String) XS_version: 0.01	
subpro19.nlm	Mod_Pperl-2.0 Extension (SubProcess) XS_version: 0.01	
subreq18.nlm	Mod_Pperl-2.0 Extension (SubRequest) XS_version: 0.01	
svccost.nlm	Novell XTier Service Costing Module	
syscalls.nlm	NetWare Operating System Call and Marshalling Library	• Part of the marshalling layer, which allows modules running in protected memory (Ring 3) to communicate with the kernel (Ring 0). • If unloaded, no protected memory functionality. • Nearly every module that loads and runs in Ring 3 requires this module. • Loaded by default.
syslog.nlm	NetWare Logfile Manager	• NetWare log file daemon. • Can only be unloaded after zlss.nss unloads, which is only on the server shutdown for NetWare 6.5. • Used by NSS and iSCSI. • Loaded by default.

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Name	Description	Purpose
table5.nlm	Mod_Pperl-2.0 Extension (Table) XS_version: 0.01	

Name	Description	Purpose
tar.nlm	GNU Tar - Watcom	- Archives selected files or directories to a .tar file. Expands a .tar file, thus restoring selected files or directories back to their original form and location on a disk drive. - This is a library NLM program that is needed if any user or program wants to use tar.nlm. - Requires c lib.nlm to be loaded. - Not loaded by default.
tcp.nlm	Novell TCP/IP Stack - Transport module (NULL Encryption)	- Provides transport-layer TCP and UDP interfaces. - Cannot be unloaded. - Dependent on all applications written over Transport Layer. - Loaded by default.
tcpcfg.nlm	Novell TCPIP Configuration	- TCP/IP protocol configuration snap-in for inetcfg.nlm. - Auto-loaded and unloaded by inetcfg.nlm. - Dependent on inetcfg.nlm. - Not loaded by default.
tcpcon.nlm	Novell TCPIP Monitoring Console	- An NLM program that provides access to statistics and information about the status of various components of the TCP/IP protocol suite. Uses SNMP to access this information from any local or remote system on the network. Operates over TCP/IP and IPX networks. - Not loaded by default. - For more information, see “TCPCON” in the <i>Utilities Reference for OES</i>.
tcpip.nlm	Novell TCP/IP Stack - Network module (NULL Encryption)	- Provides IP, ICMP, IGMP, routing, and other network-layer protocols. - Cannot be unloaded. - Dependent on all applications using TCP/IP layer. - Loaded by default.
tcpstats.nlm	Web Interface for Protocol Monitoring	- NRM based snap-in for remote monitoring of Protocol Information - If unloaded, remote monitoring of TCP/IP and other related protocols is not possible. - No hard-coded dependencies. Imports APIs from portal.nlm. - Loaded by default through ipminit.ncf, which is loaded through autoexec.ncf.

Name	Description	Purpose
techwalk.nlm	MPR Technical Support Capture Utility for NetWare	• Use at the server console to record NetWare configuration information. • Not loaded by default. • For more information, see “TECHWALK” in the <i>Utilities Reference for OES</i>.
telnet.nlm	Telnet Client	• No consequences if unloaded. • Dependent on libc.nlm and nwterm.nlm. • Not loaded by default.
telnetd.nlm	Telnet Daemon for XConsole and TN3270	• Telnet daemon used to access the NetWare Server Console through Telnet protocol. • If unloaded, Telnet services are not available. • Dependent on remote.nlm. • Loaded by default if enabled in inetcfg.
testpat.nlm	Java - X11 Graphics Test Pattern Generator (Build 030227)	
thread.nlm	Perl 5.8.0 - Thread Extension XS_version: 2.00	
threads.nlm	Novell Threads Package for NLM programs	• Server library (CLib) support module. • Cannot unload because there are dozens of low-level components (such as TCP/IP, PKI, and NWregistry) that use it. • Dozens of dependencies. To see the full list of everything currently using any given NLM program, open Novell Remote Manager (NRM), click List Modules under the Manage Applications heading, and then click the NLM name. • Loaded by default.
timesync.nlm	NetWare Time Synchronization Services	• Synchronizes time between servers. • If unloaded, time is not synchronized. eDirectory is also affected. • Dependent on core operating system functions, such as tcpip.nlm, clib.nlm, and libc.nlm. • Loaded by default in all patterns of NetWare 6.5 install.
tli.nlm	NetWare Transport Level Interface Library	• Use at the server console to provide Transport Level Interface (TLI) communication services. • Cannot be unloaded. • Dependent on snmp.nlm. • Loaded by default. • For more information, see “TLI” in the <i>Utilities Reference for OES</i>.

Name	Description	Purpose
tnamesrv.nlm	jBroker ORB Transient Name Service	
tokensm.nlm	Novell Token-Ring Topology Specific Module	• All token ring LAN traffic passes through this module as packets are sent and received by the token ring driver(s). Tokensm.nlm provides a common API interface for token ring drivers. • Before tokensm.nlm can be unloaded, all token ring LAN drivers must be unloaded and therefore all token ring traffic is terminated. • Tokensm.nlm requires msm.nlm to load first. • Not loaded by default.
tping.nlm	TCPIP TPING Utility Production_25Jan2002	• Network connectivity utility (text-based). • Not loaded by default. • For more information, see “TPING” in the <i>Utilities Reference for OES</i>.
trustbar.nlm	TrustBar	• A generic trustee backup and restore tool for upgrading clusters from NetWare 5.1 to NetWare 6 and later. Used during the cluster pre-upgrade, operating system upgrade, and cluster upgrade process. Works by scanning a volume for all files and creates an XML file with file names and corresponding trustee assignments. The XML file can be used to restore trustee assignments to files on a volume.
tsafs.nlm	SMS - File System Agent for NetWare 6.5	• Target Service Agent (TSA) provides transparency by abstracting details of the specific target being backed up. TSAFS is the file system target service agent that is capable of providing transparent access to the legacy or NSS file systems on NetWare 6.5. • No consequences if unloaded, if a job isn't active. • Dependent on smdr.nlm. • Not loaded by default.
tsands.nlm	TSA for Novell eDirectory 7.x and 8.x	• Target Service Agent for Novell Directory Services (TSANDS). Provides single object backup and restore for the Directory via SMS. • Dependent on smdr.nlm. • Not loaded by default.
tsatest.nlm	TSA Test with Statistical Analysis	• No consequences if unloaded. • Dependent on tsafs.nlm. • Not loaded by default.

Name	Description	Purpose
tui.nlm	Textual User Interface MOAB_B40.528	• Not loaded by default.
type.nlm	Perl 5.0.8 - DOS Type Emulation for Perl Testing	• Not loaded by default.
typemap.nlm	Perl 5.8.0 - Typemap Extension XS_version: 0.01	
tzjv.nlm	Java Native Method Library for nwitz.nlm	

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Name	Description	Purpose
ucs2java.nlm	Novell UCS - Java Provider	• Dependent on ucscore.nlm and JVM*. • Not loaded by default.
ucs2rmt.nlm	Novell UCS - Remote ActiveX Provider	• Dependent on ucscore.nlm. • Not loaded by default.
ucs2ucx.nlm	Novell UCS - UCX Provider	• UCX component • Dependent on ucscore.nlm. • Not loaded by default.
ucscore.nlm	Novell UCS Core NLM program	• Universal Component System core library. • Not loaded by default.
ucxmgr.nlm	NSN - UCX Library Manager	• UCX component manager. • Loaded by default.
uninstall.nlm	NetWare Generic Product Uninstall NLM program	• Removes install info from the products.dat file for some products. • Associated with nwconfig.nlm. • Loaded by default.
ukbdshim.nlm	Novell USB Keyboard Shim	• USB keyboard support module. • If unloaded, no support for USB keyboard. • Loaded by default.
umsshim.nlm	Novell USB Mouse Shim	• USB mouse support module. • Not unloadable without unloading server GUI. • Used by Java GUI. • Loaded by default.

Name	Description	Purpose
uni_1250.nlm	NetWare Unicode conversion API for code page 1250, V1.01	• Conversion for Unicode to a specific code page. Part of developer library. • The numbered Unicode NLM program that corresponds to the language of the server is unloadable. All other numbered Unicode NLM programs can be unloaded. • Dependent on locnlm32.nlm. • Loaded by default if it is the code page that corresponds to the language of the server.
uni_1251.nlm	NetWare Unicode Conversion API for Code Page 1251, 1.01	• Conversion for Unicode to a specific code page. Part of developer library. • The numbered Unicode NLM program that corresponds to the language of the server is unloadable. All other numbered Unicode NLM programs can be unloaded. • Dependent on locnlm32.nlm. • Loaded by default if it is the code page that corresponds to the language of the server.
uni_1252.nlm	NetWare Unicode Conversion API for Code Page 1252, 1.01	• Conversion for Unicode to a specific code page. Part of developer library. • The numbered Unicode NLM program that corresponds to the language of the server is unloadable. All other numbered Unicode NLM programs can be unloaded. • Dependent on locnlm32.nlm. • Loaded by default if it is the code page that corresponds to the language of the server.
uni_1253.nlm	NetWare Unicode Conversion API for Code Page 1253, 1.01	• Conversion for Unicode to a specific code page. Part of developer library. • The numbered Unicode NLM program that corresponds to the language of the server is unloadable. All other numbered Unicode NLM programs can be unloaded. • Dependent on locnlm32.nlm. • Loaded by default if it is the code page that corresponds to the language of the server.

Name	Description	Purpose
uni_1254.nlm	NetWare Unicode Conversion API for Code Page 1254, 1.01	• Conversion for Unicode to a specific code page. Part of developer library. • The numbered Unicode NLM program that corresponds to the language of the server is unloadable. All other numbered Unicode NLM programs can be unloaded. • Dependent on locnlm32.nlm. • Loaded by default if it is the code page that corresponds to the language of the server.
uni_1255.nlm	NetWare Unicode Conversion API for Code Page 1255, 1.01	• Conversion for Unicode to a specific code page. Part of developer library. • The numbered Unicode NLM program that corresponds to the language of the server is unloadable. All other numbered Unicode NLM programs can be unloaded. • Dependent on locnlm32.nlm. • Loaded by default if it is the code page that corresponds to the language of the server.
uni_1256.nlm	NetWare Unicode Conversion API for Code Page 1256, 1.01	• Conversion for Unicode to a specific code page. Part of developer library. • The numbered Unicode NLM program that corresponds to the language of the server is unloadable. All other numbered Unicode NLM programs can be unloaded. • Dependent on locnlm32.nlm. • Loaded by default if it is the code page that corresponds to the language of the server.
uni_1257.nlm	NetWare Unicode Conversion API for Code Page 1257, 1.01	• Conversion for Unicode to a specific code page. Part of developer library. • The numbered Unicode NLM program that corresponds to the language of the server is unloadable. All other numbered Unicode NLM programs can be unloaded. • Dependent on locnlm32.nlm. • Loaded by default if it is the code page that corresponds to the language of the server.

Name	Description	Purpose
uni_1258.nlm	NetWare Unicode Conversion API for Code Page 1258, 1.01	• Conversion for Unicode to a specific code page. Part of developer library. • The numbered Unicode NLM program that corresponds to the language of the server is unloadable. All other numbered Unicode NLM programs can be unloaded. • Dependent on locnlm32.nlm. • Loaded by default if it is the code page that corresponds to the language of the server.
uni_437.nlm	NetWare Unicode Conversion API for Code Page 437, 1.01	• Conversion for Unicode to a specific code page. Part of developer library. • Always loaded. • Dependent on locnlm32.nlm. • Loaded by default.
uni_737.nlm	NetWare Unicode Conversion API for Code Page 737, 1.01	• Conversion for Unicode to a specific code page. Part of developer library. • The numbered Unicode NLM program that corresponds to the language of the server is unloadable. All other numbered Unicode NLM programs can be unloaded. • Dependent on locnlm32.nlm. • Loaded by default if it is the code page that corresponds to the language of the server.
uni_775.nlm	NetWare Unicode Conversion API for Code Page 775, 1.01	• Conversion for Unicode to a specific code page. Part of developer library. • The numbered Unicode NLM program that corresponds to the language of the server is unloadable. All other numbered Unicode NLM programs can be unloaded. • Dependent on locnlm32.nlm. • Loaded by default if it is the code page that corresponds to the language of the server.
uni_850.nlm	NetWare Unicode Conversion API for Code Page 850, 1.01	• Conversion for Unicode to a specific code page. Part of developer library. • The numbered Unicode NLM program that corresponds to the language of the server is unloadable. All other numbered Unicode NLM programs can be unloaded. • Dependent on locnlm32.nlm. • Loaded by default if it is the code page that corresponds to the language of the server.

Name	Description	Purpose
uni_852.nlm	NetWare Unicode Conversion API for Code Page 852, 1.01	• Conversion for Unicode to a specific code page. Part of developer library. • The numbered Unicode NLM program that corresponds to the language of the server is unloadable. All other numbered Unicode NLM programs can be unloaded. • Dependent on locnlm32.nlm. • Loaded by default if it is the code page that corresponds to the language of the server.
uni_855.nlm	NetWare Unicode Conversion API for Code Page 855, 1.01	• Conversion for Unicode to a specific code page. Part of developer library. • The numbered Unicode NLM program that corresponds to the language of the server is unloadable. All other numbered Unicode NLM programs can be unloaded. • Dependent on locnlm32.nlm. • Loaded by default if it is the code page that corresponds to the language of the server.
uni_857.nlm	NetWare Unicode Conversion API for Code Page 857, 1.01	• Conversion for Unicode to a specific code page. Part of developer library. • The numbered Unicode NLM program that corresponds to the language of the server is unloadable. All other numbered Unicode NLM programs can be unloaded. • Dependent on locnlm32.nlm. • Loaded by default if it is the code page that corresponds to the language of the server.
uni_860.nlm	NetWare Unicode Conversion API for Code Page 860, 1.01	• Conversion for Unicode to a specific code page. Part of developer library. • The numbered Unicode NLM program that corresponds to the language of the server is unloadable. All other numbered Unicode NLM programs can be unloaded. • Dependent on locnlm32.nlm. • Loaded by default if it is the code page that corresponds to the language of the server.

Name	Description	Purpose
uni_861.nlm	NetWare Unicode Conversion API for Code Page 861, 1.01	• Conversion for Unicode to a specific code page. Part of developer library. • The numbered Unicode NLM program that corresponds to the language of the server is unloadable. All other numbered Unicode NLM programs can be unloaded. • Dependent on locnlm32.nlm. • Loaded by default if it is the code page that corresponds to the language of the server.
uni_862.nlm	NetWare Unicode Conversion API for Code Page 862, 1.01	• Conversion for Unicode to a specific code page. Part of developer library. • The numbered Unicode NLM program that corresponds to the language of the server is unloadable. All other numbered Unicode NLM programs can be unloaded. • Dependent on locnlm32.nlm. • Loaded by default if it is the code page that corresponds to the language of the server.
uni_863.nlm	NetWare Unicode Conversion API for Code Page 863, 1.01	• Conversion for Unicode to a specific code page. Part of developer library. • The numbered Unicode NLM program that corresponds to the language of the server is unloadable. All other numbered Unicode NLM programs can be unloaded. • Dependent on locnlm32.nlm. • Loaded by default if it is the code page that corresponds to the language of the server.
uni_864.nlm	NetWare Unicode Conversion API for Code Page 864, 1.01	• Conversion for Unicode to a specific code page. Part of developer library. • The numbered Unicode NLM program that corresponds to the language of the server is unloadable. All other numbered Unicode NLM programs can be unloaded. • Dependent on locnlm32.nlm. • Loaded by default if it is the code page that corresponds to the language of the server.

Name	Description	Purpose
uni_865.nlm	NetWare Unicode Conversion API for Code Page 865, 1.01	• Conversion for Unicode to a specific code page. Part of developer library. • The numbered Unicode NLM program that corresponds to the language of the server is unloadable. All other numbered Unicode NLM programs can be unloaded. • Dependent on locnlm32.nlm. • Loaded by default if it is the code page that corresponds to the language of the server.
uni_866.nlm	NetWare Unicode Conversion API for Code Page 866, 1.01	• Conversion for Unicode to a specific code page. Part of developer library. • The numbered Unicode NLM program that corresponds to the language of the server is unloadable. All other numbered Unicode NLM programs can be unloaded. • Dependent on locnlm32.nlm. • Loaded by default if it is the code page that corresponds to the language of the server.
uni_874.nlm	NetWare Unicode Conversion API for Code Page 874, 1.01	• Conversion for Unicode to a specific code page. Part of developer library. • The numbered Unicode NLM program that corresponds to the language of the server is unloadable. All other numbered Unicode NLM programs can be unloaded. • Dependent on locnlm32.nlm. • Loaded by default if it is the code page that corresponds to the language of the server.
uni_932.nlm	NetWare Unicode Conversion API for Code Page 932, 1.01	• Conversion for Unicode to a specific code page. Part of developer library. • The numbered Unicode NLM program that corresponds to the language of the server is unloadable. All other numbered Unicode NLM programs can be unloaded. • Dependent on locnlm32.nlm. • Loaded by default if it is the code page that corresponds to the language of the server.

Name	Description	Purpose
uni_936.nlm	NetWare Unicode Conversion API for Code Page 936, 1.01	• Conversion for Unicode to a specific code page. Part of developer library. • The numbered Unicode NLM program that corresponds to the language of the server is unloadable. All other numbered Unicode NLM programs can be unloaded. • Dependent on locnlm32.nlm. • Loaded by default if it is the code page that corresponds to the language of the server.
uni_949.nlm	NetWare Unicode Conversion API for Code Page 949, 1.01	• Conversion for Unicode to a specific code page. Part of developer library. • The numbered Unicode NLM program that corresponds to the language of the server is unloadable. All other numbered Unicode NLM programs can be unloaded. • Dependent on locnlm32.nlm. • Loaded by default if it is the code page that corresponds to the language of the server.
uni_950.nlm	NetWare Unicode Conversion API for Code Page 950, 1.01	• Conversion for Unicode to a specific code page. Part of developer library. • The numbered Unicode NLM program that corresponds to the language of the server is unloadable. All other numbered Unicode NLM programs can be unloaded. • Dependent on locnlm32.nlm. • Loaded by default if it is the code page that corresponds to the language of the server.
uni_mon.nlm	NetWare Unicode Lower Case API, 1.01	• Lowercase table for sorting Unicode. • Cannot be unloaded. • Loaded by default.
uni_upr.nlm	NetWare Unicode Upper Case API, 1.01	• Uppercase table for sorting Unicode. • Cannot be unloaded. • Loaded by default.
unicode.nlm	NetWare Unicode Runtime Library	• Legacy NLM program. API for conversion of Unicode to local code page.
unicrypt.nlm	TCP/IP Encryption NLM program	• NIS Encryption Support Module. • Loaded by default.
uninstif.nlm	uninstif	
uniqueid.nlm	Apache 2.0.44 Unique ID Module	

Name	Description	Purpose
unregsrv.nlm	jBroker ORB Unregister Server Utility	
unzip.nlm	unzip utility	• Installation utility, unzip utility. • Not loaded by default.
uri17.nlm	mod_perl-2.0 Extension (URI) XS_version: 0.01	
uri4.nlm	mod_perl-2.0 Extension (URI) XS_version: 0.01	
userlib.nlm	NetWare Operating System Function Library	• Library of functions used by modules running in protected memory (Ring3). • If unloaded, there is no protected memory functionality. • Most modules in protected memory require the functionality provided by userlib.nlm. • Loaded by default.
usertrk.nlm	Apache 2.0.44 User Track Module	
util.nlm	Perl 5.8.0 - Util Extension XS_version: 1.07_00	
util0.nlm	mod_perl-2.0 Extension (Util) XS_version: 0.01	
util16.nlm	mod_perl-2.0 Extension (Util) XS_version: 0.01	
util3.nlm	mod_perl-2.0 Extension (Util) XS_version: 0.01	
utiljv.nlm	Java Native Method Library for Miscellaneous Functions	
utilldap.nlm	Apache 2.0.44 LDAP Authentication Module	
uuid2.nlm	mod_perl-2.0 Extension (UUID) XS_version: 0.01	

2.23 V

Name	Description	Purpose
v_long.nlm	NetWare Volume Repair Long Name Space Support	• Dependent on vrepair.nlm. • Not loaded by default.
v_mac.nlm	NetWare Volume Repair MAC Name Space Support	• Dependent on vrepair.nlm. • Not loaded by default.

Name	Description	Purpose
v_nfs.nlm	VRepair NFS Name Space Support	• Vrepair.nlm support module for NFS NameSpace for traditional volumes. • If unloaded, repair of NFS NameSpace on traditional volumes is not possible. • Dependent on vrepair.nlm, which verifies and loads and unloads this.nlm. • Not loaded by default.
vcu.nlm	NSS Volume Copy Upgrade (Build 246 MP)	• Volume copy upgrade utility. Copies and restores NSS volumes. Determines whether IRFs were moved correctly during a copy or restore. Renames an NSS volume's default eDirectory object. • Can be unloaded after upgrade is completed. • Not loaded by default.
vdqad.nlm	DFS Volume Location Database (VLDB) (Build 412 MP)	• Back-end database for VLDB. • Unloaded by unloading vldb.nlm. • Autoloads with vldb.nlm. • Loaded by default only on VLDB server.
verdump.nlm	VERDUMP - Version Display Utility	• 4.x WAN-related file. • Not loaded by default.
verify.nlm	Java Verify (Based on 1.4.1_01)	
vesa.nlm	Java - VESA JNI (Build 030227)	
vgadisp.nlm	NetWare 5.x Font Processor	• Displays Chinese Traditional, Chinese Simplified, Japanese, and Korean double-byte characters on NetWare text screens. • If unloaded, double-byte characters are not displayed. Display might look like random characters (garbage). • Added to startup.ncf at installation time if a double-byte codepage is selected by the installer.
vhost.nlm	Apache 2.0.44 Vhost Alias Module	
view.nlm	Textual User Interface	• NetWare file viewer. • Not loaded by default. • For more information, see “VIEW” in the <i>Utilities Reference for OES</i>.

Name	Description	Purpose
<code>vipx.nlm</code>	Virtual Interface Architecture Extensions (Build Number 02122003)	• Wrapper around <code>vll.nlm</code> and provides some APIs that are more convenient to program to than those provided by <code>vll.nlm</code> directly. Internal to clustering and used only by <code>css.nlm</code>. • Use <code>ldncls.ncf</code> to load clustering NLM programs. Use <code>uldncls.ncf</code> files to unload clustering NLM programs. If you unload cluster NLM programs on a server that was configured to be part of a cluster, the node leaves the cluster. All cluster resources are failed over to other nodes in the cluster, and it is not possible thereafter to activate any sharable drives for clustering pools on that server. • Dependent on <code>clstrlib.nlm</code>, <code>gipc.nlm</code>, <code>sbd.nlm</code>, and <code>vll.nlm</code>. • Only loaded if you installed cluster services on the server.
<code>vldb.nlm</code>	DFS Volume Location Database (VLDB) (Build 417 MP)	• Unloaded only by the VLDB EXIT command, which also unloads <code>vdqad.nlm</code> and <code>vlmsg.nlm</code>. • Autoloads <code>vdqad.nlm</code> and <code>vlmsg.nlm</code>. Dependent on <code>jstcp.nlm</code> and <code>jsmg.nlm</code>. • Loaded by default only on VLDB servers.
<code>vll.nlm</code>	Novell VI Architecture Link Layer (Build Number 02122003)	• Interface layer for several other clustering services modules. The <code>gipc</code>, <code>sbd</code>, and <code>crm</code> modules interface in the <code>vll</code>. • Use <code>ldncls.ncf</code> to load clustering NLM programs. Use <code>uldncls.ncf</code> files to unload clustering NLM programs. If you unload cluster NLM programs on a server that was configured to be part of a cluster, the node leaves the cluster. All cluster resources are failed over to other nodes in the cluster, and it is not possible thereafter to activate any sharable drives for clustering pools on that server. • Dependent on <code>clstrlib.nlm</code>, <code>gipc.nlm</code>, and <code>sbd.nlm</code>. <code>Vipx.nlm</code> is dependent on it. • Only loaded if you installed cluster services on the server.
<code>vlmsg.nlm</code>	DFS Volume Location Database (VLDB) (Build 417 MP)	• Message layer for parsing message strings. • Only unload when <code>vldb.nlm</code> unloads. • Autoloads with <code>vldb.nlm</code>. • Loaded by default only on VLDB servers.

Name	Description	Purpose
vlrpc.nlm	DFS Volume Location Database (VLDB) RPC Interface (Build 360 MP)	• Volume location remote procedure call library. • Cannot be unloaded directly because several NLM programs depend on it. • Autoloads with volsms.nlm, vlprpr.nlm, and cifs.nlm. • Loaded by default.
vlprpr.nlm	DFS Volume Location Database (VLDB) Repair (Build 417 MP)	• Volume location repair utility. • Auto unloads when repair is finished. • Loaded by vlldb.nlm when a repair is requested. • Not loaded by default.
vlsl.nlm	Novell XTier Volume Location Service	
vmrpc.nlm	DFS Volume Manager RPC Interface (Build 225 MP)	• Volume manager remote procedure call library. • Can only be unloaded after volsms.nlm unloads because several NLM programs depend on it. • Used by vlprpr.nlm and volsms.nlm. • Loaded by default.
volagent.nlm	NetWare 5.0 Directory Services Volume Agent	• Used to maintain the uses attribute on the volume object of legacy file system volumes. This is done to inform the volume when objects are moved or deleted. • If unloaded, the uses attribute is not maintained, but currently there is a secondary method that informs the volume of changes. • Dependent on dsloader.nlm. • Not loaded by default.
volsms.nlm	NSS Distributed Volume Manager (Build 113 MP)	• Part of volume manager (volmn.nss). • Can be unloaded, but move and split functionality on that server is limited. • Autoloads with volmn.nss. • Loaded by default.
vrepair.nlm	NetWare Volume Repair Utility	• Traditional volume repair utility. • Dependent on nwsnut.nlm. • Not loaded by default. • For more information, see “VREPAIR” in the <i>Utilities Reference for OES</i>.

2.24 W

Name	Description	Purpose
w0inst.nlm	PKI: W0 Install	
w0jni.nlm	PKI: W0 Install JNI Layer	
whois.nlm	Whois: TCPIP Diagnosis Command	• Internet domain name and network number directory service. • No consequences if unloaded. • Not loaded by default.
wnicsmem.nlm	WNIC Shared Memory Utility MOAB_NDK	• Part of NetWare Connect. • Autoloaded by ppp.lan.
wpsd.nlm	ServiceDescriptor Natives NLM program	
ws2_32.nlm	NetWare WinSock 2.0 NLM program	• Main NLM program for the WinSock 2.2 suite. Provides a transport layer for IPX/SPX and TCP/IP communications to applications. Because many NLM programs are directly or indirectly dependent upon it, it is virtually impossible to unload without shutting down almost all applications first. Dependent on LibC and CLib. • Loads by default in stage 2 of the server boot process.
wsm.nlm	WAN Support Module	• Loaded when WAN interfaces are configured. • Not loaded by default.
wspdsi.nlm	NetWare WinSock Service 1.0 NLM program for Data Stream Interface	• Provides file access for Apple-type communications. • If unloaded, Apple clients are not able to get files services on NetWare. • Dependent on ws2_32.nlm, wspip.nlm, and afptcp.nlm. • Loaded by default if afptcp.nlm is loaded.
wspip.nlm	NetWare WinSock Service 1.0 NLM program for TCP and UDP	• Provides communications to the TCP/IP layer for WinSock. • If unloaded, the server might abend and lose all communication in TCP/IP through WinSock. • Dependent on ws2_32.nlm, wspssl.nlm, and tcpip.nlm. • Loaded by default if the server is configured to use TCP/IP.

Name	Description	Purpose
wspipx.nlm	NetWare WinSock Service 1.0 NLM program for IPX and SPX	- Provides communications to the IPX/SPX™ layer for WinSock. - If unloaded, the server might abend and lose all communication in IPX/SPX through WinSock. - Dependent on ws2_32.nlm and ipxspx.nlm. - Loaded by default if server is configured to use IPX/SPX.
wspssl.nlm	NetWare WinSock Service 1.0 NLM program for SSL	- Provides Secure Sockets capability to a socket. - If unloaded, the server might abend and lose SSL encryption ability on sockets. - Dependent on ws2_32.nlm, wspip.nlm, nile.nlm, and nwutil.nlm. - Loaded by default if nile.nlm is loaded.
wtm.nlm	NetWare WAN Traffic Management Utility	- Allows a user to set policies on what servers eDirectory authenticates and replicates to. It is mostly used in Europe and Japan to save money from users logging into a server that is across a WAN link in another country. - If unloaded, feature would not be available. It does not affect any other product or feature. - Loaded by default. - For more information, see “WAN Traffic Manager” in the <i>Utilities Reference for OES</i>.

2.25 X

Name	Description	Purpose
xaccel.nlm	Java - Accelerated-X Display Server	
xconsole.nlm	NetWare - Xconsole Loader	- Telnet support module. - If unloaded, Telnet services are not available. - Dependent on telnetd.nlm and remote.nlm. - Loaded by default if enabled in inetcfg.
xconssrv.nlm	XConsole: Remote Administration Utility	- Telnet Support Module - If unloaded, Telnet services are not available. - Dependent on telnetd.nlm and remote.nlm. - Loaded by default if enabled in inetcfg.

Name	Description	Purpose
xdav.nlm	Novell XTier WebDAV Handler	
xeroxnpn.nlm	NDPS Plug and Print for Xerox Printers	- Enables printing to Xerox* printers. An alternative to the Novell gateway. Provides custom configuration and control for Xerox printers. - Unloading the gateway disables print support for the printers that are configured to use that gateway. - Gateways depend on eDirectory, the Web server for the iManager management consoles, and NDPS, which includes dplsv386.nlm, broker.nlm, ndpsm.nlm, and their dependencies. - Gateways are not loaded by default.
xfile.nlm	Novell XTier NetWare FileSystem Handler	
xgateway.nlm	NDPS Gateway for Xerox Printers	- Enables printing to Xerox printers. An alternative to the Novell gateway. Provides custom configuration and control for Xerox printers. - Unloading the gateway disables print support for the printers that are configured to use that gateway. - Gateways depend on eDirectory, the Web server for the iManager management consoles, and NDPS, which includes dplsv386.nlm, broker.nlm, ndpsm.nlm, and their dependencies. - Gateways are not loaded by default.
xhost.nlm	Java - X Window Server Access Control Program (Build 030227)	
xi18n.nlm	Novell Cross-Platform Internationalization Package	- Language manager core. Provides essential internationalization services. - If unloaded, all messages from the applications that are built on it won't work. Those applications currently include ice, backupcr, and ndsimon. - Dependent on libc.nlm. - Loaded by default with eMBox and ndsimon.
xidev.nlm	Java - X Window Input Driver (Build 030227)	
xinit.nlm	Java - X Window Systems Initializer (Build 030227)	

Name	Description	Purpose
<code>xis11.nlm</code>	XML Integration Service	• An XML-based services infrastructure for native code. • If unloaded, eMBox and parts of GroupWise do not work. • Dependent on eDirectory 8.7. • Loads when eMBox loads.
<code>xlib.nlm</code>	Java - XFree86 4.X X11R6 Library (LibC) (Build 030227)	
<code>xminit.nlm</code>	Java - Motif Toolkit Init Utility (Build 030227)	
<code>xmlparse.nlm</code>	Expat - XML Toolkit Parser Toolkit 1.2	
<code>xmnterm.nlm</code>	Java - GUI Server Console Native Support Build 030227	
<code>xmodmap.nlm</code>	Java - Keyboard/Pointer Modifier Utility for X (Build 021009)	
<code>xnfs.nlm</code>	NetWare NFS - NFS Server for NetWare 6.5	• Provides NFS Server functionality on NetWare 6.5. • If unloaded, NFS File Services are not available. • Dependent on <code>ndsilib.nlm</code>. • Loaded by default.
<code>xntpd.nlm</code>	NTPv3 Time Synchronization Service	• Synchronizes time. Runs like a daemon constantly. • If unloaded, time is not synchronized and DS reports "Time not synchronized." • Loaded and initialized before DS and other applications that need time to be synchronized. • Not loaded by default, but the server can be configured to load this NLM program by default. By default, <code>timesync.nlm</code> is loaded.
<code>xntpd.nlm</code>	NTPv3 Query/Remote Configuration Tool	• Used to remotely configure a server running <code>xntpd.nlm</code>. • The server you are managing should have <code>xntpd.nlm</code> running. • Not loaded by default.

Name	Description	Purpose
xprndrv.nlm	Xerox Print Driver Un/Installer for NetWare	- Enables printing to Xerox printers. An alternative to the Novell gateway. Provides custom configuration and control for Xerox printers. - Unloading the gateway disables print support for the printers that are configured to use that gateway. - Gateways depend on eDirectory, the Web server for the iManager management consoles, and NDPS, which includes dplsv386.nlm, broker.nlm, ndpsm.nlm, and their dependencies. - Gateways are not loaded by default.
xscrdump.nlm	Java - X Window Screen Dump Utility (Build 030227)	
xset.nlm	Java - User Preference Utility for X (Build 030227)	
xsetbg.nlm	Java - X11 Image Loading Utility (Build 030227)	
xsetroot.nlm	Java - Root Window Parameter Setting Utility for X (Build 030227)	
xtaddr.nlm	Novell ZENworks® Address Update Handler	
xtlog.nlm	Novell XTier Logger	
xtncp.nlm	Novell XTier NCP Session Layer Driver	
xtnetid.nlm	Novell XTier NetIdentity Password Module	
xtutil.nlm	Novell XTier Utility Functions	
xvesa.nlm	Java - XFree86 4.2.0 Kdrive VESA XServer (Build 030227)	

2.26 Y

Name	Description	Purpose
ypcat.nlm	NetWare NFS - Ypcat Utility to Display Contents of a Specified NIS Map	- Provides a YPALL for an NIS domain. - Dependent on nisbind.nlm. - Not loaded by default.

Name	Description	Purpose
ypmatch.nlm	NetWare NFS - Ypmatch to Look Up and Display an NIS Record	• Finds an entry in the NIS domain. • Dependent on nisbind.nlm. • Not loaded by default.
yppush.nlm	NetWare NFS - Yppush Utility to Initiate NIS Map Replication	• Used by the master server to distribute data to slave databases. • Dependent on nisbind.nlm. • Not loaded by default.
ypset.nlm	NetWare NFS - Ypset Utility to Set NIS Domain and Server	• Binds to a domain. • Dependent on nisbind.nlm. • Not loaded by default.
ypwhich.nlm	NetWare NFS - Ypwhich Utility to Query Map Information	• Dependent on nisbind.nlm. • Not loaded by default.
ypxfr.nlm	NetWare NFS - Ypxfr Utility to Replicate NIS Maps	• Used by slave NIS to find the master server. • Dependent on nisbind.nlm. • Not loaded by default.

2.27 Z

Name	Description	Purpose
zip.nlm	Java Zip (Based on 1.4.1_01)	
zlib.nlm	ZLIB 1.1.4 General Purpose Compression Library for NetWare	• General Purpose Compression Library, freeware by Jean-Loup Gailly and Mark Adler ported to NetWare by Novell, Inc. • Required by print (driver upload/download in rmansrvr.nlm) and nippzlib.nlm. • Dependent on clib.nlm. • Not loaded by default.
zone.nlm	Novell Import Convert Export Utility	• Performs the import and export of the DNS configuration and data. • Loaded when ice.nlm is loaded with zone as the source handler for the import operation and zone as both the source and destination handler for the export operation. The NLM program is unloaded once the import or the export operation completes. • Dependent on ice.nlm and ldaphldr.nlm. • Not loaded by default.

Documentation Updates

To help you keep current on updates to the documentation, this section contains information on content changes that have been made in the *NLM Reference for NetWare for OES* since the initial release of NetWare® 6.5.

This document is provided on the Web in HTML and PDF, and is kept up to date with the documentation changes listed in this section. If you need to know whether a copy of the PDF documentation you are using is the most recent, check its publication date on the title page.

This documentation update information is grouped according to the date the changes were published. Within a date section, the changes are alphabetically listed by the names of the main table of contents section in the *NLM Reference for NetWare for OES*.

The documentation was updated on the following dates:

- [Section A.1, “December 23, 2005 \(Open Enterprise Server SP2\),” on page 125](#)
- [Section A.2, “June 15, 2004 \(NetWare 6.5 Support Pack 2\),” on page 126](#)

A.1 December 23, 2005 (Open Enterprise Server SP2)

Updates were made to the following sections:

- [Section A.1.1, “Entire Guide,” on page 125](#)
- [Section A.1.2, “NetWare Loadable Modules List,” on page 125](#)

A.1.1 Entire Guide

Location	Change
Entire guide.	Page design reformatted to comply with revised Novell® documentation standards.

A.1.2 NetWare Loadable Modules List

Location	Change
“A” on page 12	Added information for auth lddn . n lm.

A.2 June 15, 2004 (NetWare 6.5 Support Pack 2)

Updates were made to the following sections:

- [Section A.2.1, “Entire Guide,” on page 126](#)
- [Section A.2.2, “NetWare Loadable Modules List,” on page 126](#)

A.2.1 Entire Guide

Location	Change
Entire guide.	Changed all references from NetWare Remote Manager to Novell Remote Manager.

A.2.2 NetWare Loadable Modules List

Location	Change
“A” on page 12	Removed information for aiocon.nlm, aiopptp.nlm, aiocomx.nlm, aiobcsm.nlm, and aio.nlm.
“B” on page 16	Added information for bash.nlm.
“C” on page 19	Removed information for cpecfg.nlm.
“N” on page 61	Removed information for nsindex.nlm, nsrch21.nlm, nsrchjw.nlm, and nwindexw.nlm.
“O” on page 82	Added information for owcimomd.nlm.
“R” on page 89	Removed information for rsync.nlm, rsyncdn.nlm, and rsyncrm.nlm.
“U” on page 106	Removed information for ups_aio.nlm.
“W” on page 118	Removed information for whaiocfg.nlm.